



ST. XAVIER'S COLLEGE, GOA



THE ECONOMICS CLUB

*Laureates of  
Economic  
Thought:  
A Chronicle*

Nobel Prize Winners  
in Economics





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## *About the Economics Club*

The Economics Club of St. Xavier's College Mapusa, established in the year 2025 serves as a dynamic platform for students to explore and appreciate the subject of economics beyond the classroom. The Club is driven by three key objectives:

- To spark curiosity about economics in a simple and engaging way.
- To connect economic concepts with everyday life experiences.
- To create an inspiring environment that encourages creativity and participation.

Through its activities, discussions, and collaborative learning, the Club aims to foster both intellectual growth and practical understanding. Outcomes:

- Students develop a positive and practical understanding of economics.
- Members gain confidence in applying basic economic ideas in daily situations.
- The Club builds a friendly community where learning feels interesting and accessible.

At present, the Club comprises of 119 enthusiastic student members who actively contribute to its initiatives. The Club functions under the guidance of its mentor, Ms. Ana Andrade e Souza, whose support and encouragement provide direction and academic depth to its work.

The executive committee members of the club are:

President: Ms. Astrid D'Mello

Secretary: Ms. Minoshka Maryanne Fernandes

Vice-Secretary: Mr. Omkar Mohan Karpe

Together, the Economics Club creates a vibrant space where ideas flow freely, students engage meaningfully, and economics becomes both enjoyable and relevant.



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## *Acknowledgement*

*This Chronicle on Nobel Prize Laureates in Economics has been possible due to the guidance and encouragement of many individuals. Firstly, we would like to express our sincere gratitude to the Principal of our College Ms. Ursula Barreto for her constant encouragement and support in all our endeavours. Our special thanks goes to Ms. Ana Andrade e Souza, Mentor of Economics Club, for guiding and inspiring us to explore the field of economics more deeply.*



*We also thank the Economics Club members, whose enthusiasm and teamwork made this compilation a reality.*

*A special mention must be made of the Nobel Prize Organization and other academic resources, from where we obtained valuable information that shaped the content of this Chronicle.*

*Finally, we are grateful to all those who, directly or indirectly, contributed to the successful preparation of this work.*

*Editorial team*

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## *Preface*

*It gives me great pleasure to present this Chronicle of Nobel Prize Laureates in Economics. The idea behind this compilation is to bring together the remarkable contributions of economists who have shaped the way we understand markets, development, and human welfare.*

*Economics is not just about numbers; it is about choices, societies, and progress. By learning about these Nobel Laureates and their work, students and readers can gain inspiration and a deeper appreciation of how economic thought influences our everyday lives.*

*This chronicle is a humble attempt to record their achievements in a simple and student-friendly manner. I hope it serves as both a reference and a source of motivation for learners, researchers, and enthusiasts alike.*

*Ms. Ana Andrade e Souza  
Mentor of Economics Club*

## *Beyond Recognition: The Nobel Prize*

### *Legacy*

ONE CAN STATE, WITHOUT EXAGGERATION, THAT THE OBSERVATION OF AND THE SEARCH FOR SIMILARITIES AND DIFFERENCES ARE THE BASIS OF ALL HUMAN KNOWLEDGE.

– ALFRED NOBEL

*The Nobel Prize stands as a globally esteemed award, honoring those whose achievements have delivered exceptional benefits to humanity. The Nobel Prizes are recognized worldwide as the highest honors for intellectual accomplishment and outstanding achievement across various fields. Its celebrated legacy, innovative approach to funding, and the inclusion of the Economics category all underscore its continued relevance in contemporary society.*

*Alfred Nobel, the renowned Swedish chemist, engineer, and inventor famous for creating dynamite and holding more than 350 patents throughout his life. Nobel was a complex figure, interested in literature as well as science, and remained unmarried throughout his life. His inventions and legacy continue to have a profound impact on science and society today. As a philanthropist, he established the Nobel Prize through his final will signed on November 27, 1895. In his will, he allocated the bulk of his estate to fund annual awards in five fields: Physics, Chemistry, Physiology or Medicine, Literature, and Peace.*



ALFRED NOBEL, PORTRAIT BY  
EMIL ÖSTERMAN, 1915; IN THE  
NOBEL FOUNDATION,  
STOCKHOLM.

with the intention that each prize would honor those "who shall have contributed most materially to benefit mankind." Following Nobel's death in 1896, there was considerable controversy and legal deliberation over his unexpected decision to dedicate most of his fortune to such a cause. After several years of resolving these challenges, the inaugural Nobel Prizes were finally awarded in 1901, exactly five years after his passing.

Nobel funded the prizes through his personal wealth, which at the time of his death was one of the largest private fortunes in the world. He stipulated that his fortune be invested in safe securities and that the interest earned annually would finance the prizes. The Nobel Foundation was created in 1900 to administer his estate and manage the annual awarding of the prizes. This Foundation operates much like an investment company, ensuring that the capital grows and remains sustainable for future awards. The funds are broadly allocated among stocks, bonds, real estate, and hedge funds, with the distribution periodically reviewed to maintain the foundation's health. The Nobel Foundation is tax exempt, maximizing its ability to support its mission. Importantly, while the initial funding came from Nobel's will, public and private funding often supports the scientific and humanitarian work recognized by the prizes.



SVERIGES RIKSBANK, HEAD OFFICE BUILDING (SINCE  
1976)

*The "Nobel Prize in Economics," formally known as the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, was not part of the original five prizes established by Nobel's will. It was introduced in 1969 by Sweden's central bank, Sveriges Riksbank, to recognize outstanding contributions in economics. The winner is selected by the Royal Swedish Academy of Sciences under the same processes as the other Nobel Prizes, and the prize itself is funded not by Nobel's estate but by a donation from the central bank. Over the years, this prize has honored influential economists who have broadened the understanding of economic theory, policy, and institutions. In recent years, research on institutional formation and its impact on societies has been a focus.*

*The Nobel Prize was founded on Alfred Nobel's vision and fortune, sustained by prudent financial management, and is internationally respected for highlighting transformative contributions across disciplines, including the vital realm of economics. The Nobel Prize continues to stand for those who aim for social development and greater well-being of humanity, encouraging the experienced and motivating emerging talents.*

*Astrid Rachel D Mello  
President  
Economics Club*

## YEAR 1969 (A)



## RAGNAR FRISCH

1. *Full Name: Ragnar Anton Kittil Frisch*
2. *Date of Birth and Death: 3 March 1895– 31 January 1973*
3. *Nationality: Norwegian*
4. *Year of Nobel Prize in Economics: 1969 (shared)*
5. *Institution/University at the Time of Award: University of Oslo, Oslo, Norway*
6. *Field of Contribution / Research Area: Econometrics; dynamic modelling of economic processes; statistical and mathematical modelling of economic fluctuations.*
7. *Citation: "For having developed and applied dynamic models for the analysis of economic processes"*
8. *Major Works / Publications:*
  - *Early work on business cycle modelling*
  - *Coined/used econometric methods; mathematical–statistical formulations of economic theory*
9. *Key Contributions:*
  - *Foundation of econometric modeling, combining statistical theory with economic theory.*
  - *Introduced dynamic models that track economic variables over time with delays/lags, etc. Helped establish how to quantitatively analyze economic fluctuations (business cycles) with empirical data.*



10. *Legacy / Impact on Economics:*


- *One of the pioneers of econometrics; almost all empirical macroeconomics and forecasting owes much to his groundwork.*
- *His methods and dynamic modelling are cornerstones in macroeconomic policy, planning, forecasting.*
- *Influence on how economists treat time dimension, lags, persistence and structure in economic data.*

## YEAR 1969 (B)



## JAN TINBERGEN

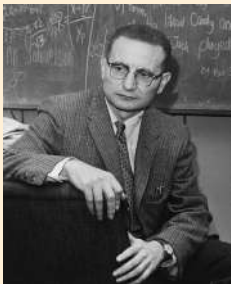
1. Full Name: Jan Tinbergen
2. Date of Birth and death: 12 April 1903–9 June 1994
3. Nationality: Dutch
4. Year of Nobel Prize in Economics: 1969 (shared)
5. Institution/University at the Time of Award: (Associated with Netherlands statistical/economic institutions; his modelling work was done in that context)
6. Field of Contribution / Research Area: Econometrics; mathematical economic modelling; statistical testing of economic theories; macro and dynamic modelling.
7. Citation (as given by the Nobel Committee): "for having developed and applied dynamic models for the analysis of economic processes"
8. Major Works / Publications:
  - Large scale multiple-equation econometric models (business cycle models)
  - Statistical testing of business cycle theories
9. Key Contributions:
  - Demonstrated how empirical data can validate (or invalidate) economic theory via large, dynamic models.
  - Brought precision in forecasting and policy modelling.
  - Strengthened connection between economic theory and observed economic behaviour over time.



*10. Legacy / Impact on Economics:*



- *His methods are still core in macroeconomics, forecasting, policy simulation.*
- *His work helped institutionalize econometrics as a central discipline in economics.*
- *Policymaking draws on his modelling of dynamic systems.*

YEAR 1970



## PAUL SAMUELSON

1. **Full Name:** Paul Anthony Samuelson
2. **Date of Birth - Date of Death:** May 15, 1915 - December 13, 2009
3. **Nationality:** American
4. **Year of Nobel Prize in Economics:** 1970
5. **Institution/University at the Time of Award:** Massachusetts Institute of Technology (MIT)
6. **Field of Contribution / Research Area:** Economic theory, welfare economics, general equilibrium, foundations of economics
7. **Citation:** For the scientific work through which he has developed static and dynamic economic theory and actively contributed to raising the level of analysis in economic science.
8. **Major Works / Publications:** -
  - **Foundations of Economic Analysis (1947)** - A landmark work that established the importance of mathematical tools in economics.
  - **Economics: An Introductory Analysis (1948 onwards)** - One of the most widely used textbooks in the world, translated into multiple languages
9. **Key Contributions:**
  - Pioneered the use of mathematical models in economics, making the subject more precise and rigorous.
  - Introduced the theory of revealed preferences, which provided an alternative to utility-based explanations of consumer behavior.

- 
- 
- *Advanced the understanding of welfare economics and the role of public goods in society.*
  - *Developed insights into stabilization policy and macroeconomic fluctuations.*

*10. Legacy / Impact on Economics:*



- *Samuelson is often called the 'father of modern economic'*
- *His work transformed economics into a true science with formal models.*
- *His textbooks educated millions of students worldwide and continue to influence the teaching of economic today.*

YEAR 1971



## SIMON KUZNETS

1. *Full Name: Simon Smith Kuznets*
2. *Date of Birth and Death: 30 April 1901 – 8 July 1985*
3. *Nationality: American (born in Pinsk; emigrated to the USA in 1922)*
4. *Year of Nobel Prize in Economics: 1971*
5. *Institution/University at the Time of Award: Harvard University, USA*
6. *Field of Contribution / Research Area: Empirical studies on economic growth, national income accounting, and development economics*
7. *Citation: "For his empirically founded interpretation of economic growth which has led to new and deepened insight into the economic and social structure and process of development."*
8. *Major Works / Publications:*
  - *National Income and Its Composition, 1919–1938 (1941)*
  - *Modern Economic Growth: Rate, Structure, and Spread (1966)*
  - *Economic Growth of Nations: Total Output and Production Structure (1971)*
9. *Key Contributions:*
  - *National Income Accounting: Created the system that measures GDP and national income, which remains the foundation of modern economic statistics.*
  - *Economic Growth Studies: Collected vast historical data to show how economies evolve over long periods, focusing on structural change from agriculture to industry to services.*

- 
- 
- *Kuznets Curve: Proposed that inequality first rises during early industrialization and development, but later falls as economies mature – sparking debates on inequality and growth still relevant today.*
  - *Development & Modernization: Showed how modernization transforms demographics, migration, education, and urbanization.*

*10. Legacy / Impact on Economics :*

- *His empirical, data-driven approach shifted economics closer to a quantitative science.*
- *Laid the groundwork for the United Nations System of National Accounts (SNA).*
- *The Kuznets Curve continues to inspire modern research, not only in income inequality but also in environmental economics.*
- *Regarded as one of the architects of economic development theory, shaping policies in both advanced and developing nations.*

**YEAR 1972 (A)**



## **JOHN HICKS**

1. *Full Name: John Richard Hicks*
2. *Date of Birth and Death: 8 April 1904 – 20 May 1989*
3. *Nationality: British*
4. *Year of Nobel Prize in Economics: 1972*
5. *Institution/University at the Time of Award: All Souls College, Oxford University, UK*
6. *Field of Contribution / Research Area: General equilibrium theory, welfare economics, capital theory, macroeconomics*
7. *Citation: "For their pioneering contributions to general economic equilibrium theory and welfare theory."*
8. *Major Works / Publications:*
  - *Value and Capital (1939) – one of the most influential economics books of the 20th century*
  - *A Revision of Demand Theory (1956)*
  - *Capital and Growth (1965)*
  - *A Theory of Economic History (1969)*



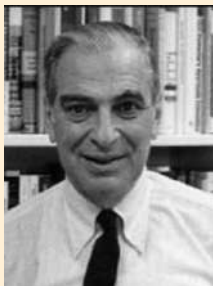
**9. Key Contributions:**

- *Value and Capital:* Extended and clarified general equilibrium analysis, making it more rigorous and applicable.
- *IS-LM Model:* Formalized Keynes's ideas into the IS-LM framework, which became the standard tool for teaching macroeconomics.
- *Welfare Economics:* Worked on consumer surplus and conditions under which markets lead to efficient allocations.
- *Capital & Growth Theories:* Analyzed the relationship between capital accumulation and economic growth.

**10. Legacy / Impact on Economics:**



- Considered one of the most versatile economists of the century.
- His IS-LM model continues to be a standard macroeconomic tool.
- Bridged classical and Keynesian traditions, making economics more systematic and practical.
- Deeply shaped how economists understand equilibrium and welfare.

YEAR 1972 (B)



## KENNETH JOSEPH ARROW

1. *Full Name: Kenneth Joseph Arrow*
2. *Date of Birth and Death: 23 August 1921 – 21 February 2017*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 1972*
5. *Institution/University at the Time of Award: Harvard University, USA*
6. *Field of Contribution / Research Area: General equilibrium theory, welfare economics, social choice theory, information economics*
7. *Citation: "For their pioneering contributions to general economic equilibrium theory and welfare theory."*
8. *Major Works / Publications:*
  - *Social Choice and Individual Values (1951)*
  - *Essays in the Theory of Risk-Bearing (1971)*
  - *Uncertainty and the Welfare Economics of Medical Care (1963) – foundational work in health economics*
9. *Key Contributions:*
  - *Arrow's Impossibility Theorem: Proved that no voting system can perfectly translate individual preferences into a fair collective decision – groundbreaking in social choice and political economy.*

- 
- 
- *General Equilibrium: With Debreu, mathematically proved that under certain conditions, markets can reach a general equilibrium where supply equals demand across all markets.*
  - *Information Economics: Showed how imperfect information shapes markets including asymmetric information in insurance, healthcare, and risk.*
  - *Risk and Uncertainty: Advanced theories on decision-making under risk and uncertainty, influencing finance and health policy.*

*10. Legacy / Impact on Economics:*

- *One of the most influential economists of the 20th century, often called a "Giant" of modern economics.*
- *Founder of modern social choice theory.*
- *His insights into health, information, and risk continue to guide policy worldwide. Mentored many students who later won the Nobel Prize themselves, extending his intellectual legacy.*

YEAR 1973



## WASSILY WASSILYEVICH LEONTIEF

1. Full Name: *Wassily Wassilyevich Leontief*
2. Date of Birth and Death: *5 August 1906 – 5 February 1999*
3. Nationality: *Russian-American*
4. Year of Nobel Prize in Economics: *1973*
5. Institution/University at the Time of Award: *Harvard University, USA*
6. Field of Contribution / Research Area: *Input-Output Analysis, Mathematical Economics*
7. Citation: *"For the development of the input-output method and for its application to important economic problems."*
8. Major Works / Publications:
  - *The Structure of American Economy, 1919-1929 (1941)*
  - *Input-Output Economics (1966)*
9. Key Contributions:
  - *Developed the Input-Output Analysis model to study inter-industry relationships in an economy.*
  - *Pioneered quantitative techniques to analyze how industries depend on each other.*
  - *His model became essential for planning, forecasting, and understanding structural changes in economies.*



*10. Legacy / Impact on Economics:*

- *Widely used in economic planning, environmental studies, and international trade analysis.*
- *Inspired Computable General Equilibrium (CGE) models.*
- *His methods are still applied by governments and international organizations (like UN, World Bank).*

YEAR 1974 (A)



## KARL GUNNAR MYRDAL

1. *Full Name: Karl Gunnar Myrdal*
2. *Date of Birth and Death: 6 December 1898 – 17 May 1987*
3. *Nationality: Swedish*
4. *Year of Nobel Prize in Economics: 1974 (shared)*
5. *Institution/University at the Time of Award: Stockholm University, Sweden*
6. *Field of Contribution / Research Area: Welfare Economics, Development Economics, Political Economy*
7. *Citation: "For their pioneering work in the theory of money and economic fluctuations and for their penetrating analysis of the interdependence of economic and institutional phenomena."*
8. *Major Works / Publications:*
  - An American Dilemma: The Negro Problem and Modern Democracy (1944)*
  - Asian Drama: An Inquiry into the Poverty of Nations (1968)*
9. *Key Contributions:*
  - *Studied the relationship between economics and social institutions.*
  - *Showed how inequality and racial discrimination affect economic development.*
  - *Advanced theories on circular causation in poverty.*



10. *Legacy / Impact on Economics:*

- *Influenced development policies in Asia and Africa.*
- *His book *An American Dilemma* shaped U.S. civil rights debates.*
- *Known for blending economics with sociology and political science.*

YEAR 1974 (B)



## FRIEDRICH AUGUST VON HAYEK

1. *Full Name: Friedrich August von Hayek*
2. *Date of Birth and Death: 8 May 1899 – 23 March 1992*
3. *Nationality: Austrian-British*
4. *Year of Nobel Prize in Economics: 1974 (shared)*
5. *Institution/University at the Time of Award: University of Freiburg, Germany*
6. *Field of Contribution / Research Area: Monetary Theory, Business Cycles, Political Economy*
7. *Citation: "For their pioneering work in the theory of money and economic fluctuations and for their penetrating analysis of the interdependence of economic and institutional phenomena."*
8. *Major Works / Publications:*
  - *The Road to Serfdom (1944)*
  - *The Constitution of Liberty (1960)*
  - *Law, Legislation and Liberty (3 volumes, 1973–1979)*
9. *Key Contributions:*
  - *Critic of centralized economic planning; defended free markets.*
  - *Analyzed how information and price signals guide efficient allocation of resources.*
  - *Developed theories on monetary policy and its role in economic cycles.*



*10. Legacy / Impact on Economics:*


- *Major influence on neoliberal and free-market policies (e.g., Thatcherism, Reaganomics).*
- *Inspired generations of economists and policymakers skeptical of state intervention.*
- *Considered one of the strongest intellectual defenders of classical liberalism.*

YEAR 1975 (A)



## LEONID VITALIYEVICH KANTOROVICH

1. Full Name: Leonid Vitaliyevich Kantorovich
2. Date of Birth and Death: 19 January 1912 - 7 April 1986
3. Nationality: Soviet (Russia, USSR)
4. Year of Nobel Prize in Economics: 1975 (shared)
5. Institution/University at the Time of Award: Academy of Sciences, Moscow, USSR (also his affiliation in USSR scientific institutions)
6. Field of Contribution / Research Area: Theory of optimum allocation of resources; mathematical economics; linear programming; operations research.
7. Citation : "For their contributions to the theory of optimum allocation of resources"
8. Major Works / Publications:
  - The Mathematical Method of Production Planning and Organization (1939)
  - The Best Uses of Economic Resources (1959)
  - Approximate Methods of Higher Analysis (with V.I. Krylov)
9. Key Contributions:
  - Developed methods for the optimal use of limited resources, especially under constraints. (Linear programming)
  - Worked on how an efficient price system can allow decentralized decision making even in planned economies.
  - His mathematical techniques helped shape operations research and optimization methods



*10. Legacy / Impact on Economics:*

- *He is considered one of the founders of linear programming.*
- *His work influenced how economists deal with resource allocation, cost optimization, production planning.*
- *Even in non-planned (market) economies, the mathematical tools he developed are widely used in optimization, logistics, engineering economics.*

YEAR 1975 (B)



## TJALLING C. KOOPMANS

1. Full Name: *Tjalling Charles Koopmans*
2. Date of Birth and Death: *28 August 1910 - 26 February 1985*
3. Nationality: *Dutch / American (born Netherlands; later worked in USA)*
4. Year of Nobel Prize in Economics: *1975 (shared)*
5. Institution/University at the Time of Award: *Yale University, New Haven, Connecticut, USA*
6. Field of Contribution / Research Area: *Theory of optimum allocation of resources; activity analysis; mathematical economics; econometrics methods.*
7. Citation: *"For their contributions to the theory of optimum allocation of resources"*
8. Major Works / Publications:
  - *Three Essays on the State of Economic Science (1957)*
  - *Papers on activity analysis and efficiency (various)*
  - *Various econometric / methodological papers on optimal growth, production, regression, etc.*
9. Key Contributions:
  - *Developed activity analysis, a method for studying input-output relations in production and understanding how best to allocate inputs across outputs for efficiency.*
  - *Combined econometric methods with resource allocation theory.*
  - *Advanced models for understanding growth, optimum allocation over time under constraints, and comparative statics in resource economics.*



*10. Legacy / Impact on Economics:*

- *His work laid foundations for optimization in economic planning, efficient resource use, operations research.*
- *His contributions are used in modern production theory, cost minimization, efficiency measurement.*
- *He influenced both theoretical and applied economics.*

YEAR 1976



## MILTON FRIEDMAN

1. *Full Name: Milton Friedman*
2. *Date of Birth and Death: 31 July 1912 - 16 November 2006*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 1976*
5. *Institution/University at the Time of Award: University of Chicago, Chicago, Illinois, USA*
6. *Field of Contribution / Research Area: Monetary economics; consumption analysis; monetary history and theory; stabilization policy*
7. *Citation: "For his achievements in the fields of consumption analysis, monetary history and theory, and for his demonstration of the complexity of stabilization policy"*
8. *Major Works / Publications:*
  - *A Monetary History of the United States, 1867-1960, with Anna J. Schwartz*
  - *Capitalism and Freedom (1962)*
  - *Free to Choose (with Rose D. Friedman)*
  - *A Theory of the Consumption Function*
9. *Key Contributions:*
  - *Founder of Monetarism: showed how changes in money supply affect inflation and output*
  - *Developed theories on permanent income (how people consume based on expected lifetime income rather than current income)*

- 
- 
- *Emphasized role of monetary policy in stabilization, challenging Keynesian views that fiscal policy alone can manage cycles.*

*10. Legacy / Impact on Economics:*

- *Influenced macroeconomic policy globally, especially central banks, on the importance of controlling money supply.*
- *His ideas shaped the Chicago school of economics and also public debate about freedom, markets, government roles.*
- *Many of his works remain standard references in monetary economics and policy courses.*

## YEAR 1977 (A)



# BERTIL OHLIN

1. *Full Name:* Bertil Gotthard Ohlin
2. *Date of Birth and Death:* 23 April, 1899 – 3 August, 1979
3. *Nationality:* Swedish
4. *Year of Nobel Prize in Economics:* 1977 (shared)
5. *Institution/University at the Time of Award:* Stockholm School of Economics, Sweden
6. *Field of Contribution / Research Area:* International trade theory, economic policy
7. *Citation:* "For their pathbreaking contribution to the theory of international trade and international capital movements."
8. *Major Works / Publications:*
  - Ohlin, B. (1933). "Interregional and international trade". Harvard University Press.
  - Numerous articles on trade theory and economic policy in Swedish journals.
9. *Key Contributions:*
  - Co-developed the 'Heckscher-Ohlin (H-O)' model of international trade, which explains trade patterns based on differences in countries' factor endowments (labor, capital, land).
  - Extended Eli Heckscher's early insights, formalizing the relationship between factor abundance and comparative advantage.
  - Contributed to the understanding of 'factor price equalization' through trade.
  - Influenced post-war debates on economic policy and trade liberalization.



10. *Legacy / Impact on Economics:*



- *The 'Heckscher–Ohlin model' remains one of the central pillars of modern international trade theory.*
- *Provided the foundation for later empirical tests and refinements of trade theory, including the Leontief Paradox.*
- *As a political leader, Ohlin also influenced Swedish and international economic policy.*
- *His work bridged academic theory with practical policy, leaving a lasting impact on both in economics and politics.*

## YEAR 1977 (B)



# JAMES MEADE

1. Full Name: James Edward Meade
2. Date of Birth and Death: 23 June 1907 – 22 December 1995
3. Nationality: British
4. Year of Nobel Prize in Economics: 1977 (shared)
5. Institution/University at the Time of Award: University of Cambridge, United Kingdom
6. Field of Contribution / Research Area: International trade theory, international capital movements, macroeconomic policy
7. Citation: "For their pathbreaking contribution to the theory of international trade and international capital movements."
8. Major Works / Publications:
  - Meade, J. E. (1951). *The balance of payments..* Oxford University Press.
  - Meade, J. E. (1955). *Trade and welfare..* Oxford University Press.
  - Meade, J. E. (1973). *The theory of international economic policy: Volume one – The balance of payments..* Oxford University Press.
  - Meade, J. E. (1976). *The theory of international economic policy: Volume two – Trade and welfare.* Oxford University Press.
9. Key Contributions:
  - Developed fundamental theories on international trade and capital movements.
  - Analyzed the interactions between trade policy, balance of payments, and macroeconomic stability.

- 
- 
- *Contributed to the theory of customs unions and the welfare effects of tariffs and trade policies.*
  - *Laid the groundwork for policy frameworks addressing global trade imbalances.*

*10. Legacy / Impact on Economics:*



- *His models of trade and welfare remain core to international economics.*
- *Helped integrate trade theory with macroeconomic policy analysis, influencing both academic theory and applied policy.*
- *His Nobel-winning work with Bertil Ohlin shaped modern understanding of trade flows, capital movements, and welfare economics.*
- *Remembered as a leading 20th-century figure in economics, bridging theory with practical applications in international economic policy.*

YEAR 1978



## HERBERT SIMON

1. Full Name: Herbert Alexander Simon
2. Date of Birth and Death: 15 June, 1916 – 9 February, 2001
3. Nationality: American
4. Year of Nobel Prize in Economics: 1978
5. Institution/University at the Time of Award: Carnegie Mellon University, Pittsburgh, USA
6. Field of Contribution / Research Area: Decision-making in organizations, bounded rationality, behavioral economics, artificial intelligence, cognitive psychology
7. Citation: "For his pioneering research into the decision-making process within economic organizations."
8. Major Works / Publications:
  - Simon, H. A. (1947). *Administrative behavior: A study of decision-making processes in administrative organization*. Macmillan.
  - Simon, H. A. (1957). *Models of man: Social and rational*. Wiley.
  - Simon, H. A. (1969). *The sciences of the artificial*. MIT Press.
  - Newell, A., & Simon, H. A. (1972). *Human problem solving*. Prentice-Hall.
9. Key Contributions:
  - Introduced the concept of 'bounded rationality', showing that decision-makers face limits in information, time, and cognitive capacity.
  - Developed the concept of satisficing (choosing an acceptable solution rather than the optimal one).

- 
- 
- *Made foundational contributions to artificial intelligence and cognitive psychology.*
  - *Bridged economics, psychology, organizational theory, and computer science.*
- 10. Legacy / Impact on Economics:*
- *Shifted economic thought from the idea of perfect rationality to realistic models of human behavior.*
  - *Laid the foundations of behavioral economics and modern decision theory.*
  - *Influenced management science, political science, and computer science.*
  - *Recognized as one of the most interdisciplinary thinkers of the 20th century.*

YEAR 1979 (A)



## THEODORE W. SCHULTZ

1. *Full Name:* Theodore William Schultz.
2. *Date of Birth and Death:* 30 April 1902 – 26 February 1998
3. *Nationality:* American
4. *Year of Nobel Prize in Economics:* 1979
5. *Institution/University at the Time of Award:* University of Chicago, Chicago, IL, USA
6. *Field of Contribution / Research Area:* Agricultural Economics; Economic Development; Human Capital
7. *Citation:* "For their pioneering research into economic development research with particular consideration of the problems of developing countries."
8. *Major Works / Publications:*
  - *Agriculture in an Unstable Economy* (1945)
  - *The Economic Value of Education* (1963)
  - *Economic Growth and Agriculture* (1968)
  - *Investment in Human Capital* (1971)
  - *Investing in People: The Economics of Population Quality* (1981)
9. *Key Contributions:*
  - Formulated and developed the concept of human capital, showing how investment in people (education, health, skills) contributes to economic growth.
  - Emphasized the role of agriculture as an integral component of economic development in developing countries.
  - Empirical work involving farm families, comparing agricultural vs. industrial productivity and its effects on income distribution and growth.



*10. Legacy / Impact on Economics:*



- *His work shifted how economists and policy-makers view development: not just capital and physical infrastructure but people as productive resources.*
- *Influenced education policy, agricultural development, and how investments in health, education, etc., are factored into growth models.*
- *Laid groundwork for later work on human capital, labor economics, development diagnostics.*

YEAR 1979 (B)



## SIR ARTHUR LEWIS

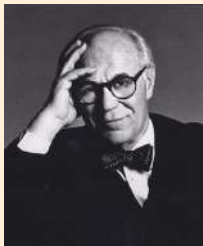
1. *Full Name: Sir William Arthur Lewis*
2. *Date of Birth and Death: 23 January 1915 – 15 June 1991*
3. *Nationality: Saint Lucian (born in Castries, Saint Lucia, British West Indies)*
4. *Year of Nobel Prize in Economics: 1979*
5. *Institution/University at the Time of Award: Princeton University, Princeton, NJ, USA.*
6. *Field of Contribution / Research Area: Economic Development; Dual-economy theory; Terms of Trade in developing vs. developed nations*
7. *Citation: "For their pioneering research into economic development research with particular consideration of the problems of developing countries."*
8. *Major Works / Publications:*
  - *Economic Development with Unlimited Supplies of Labour (1954)*
  - *The Theory of Economic Growth (1955)*
  - *Development Planning (1966)*
  - *Tropical Development 1880–1913 (1971)*
  - *Growth and Fluctuations 1870–1913 (1978)*
9. *Key Contributions:*
  - *Developed the dual-sector model (modern industrial sector + traditional agricultural sector) to explain how developing economies grow given surplus labour.*
  - *Studied how labour moves from low-productivity agriculture to higher-productivity industry, and how this impacts wages, capital accumulation, and economic growth.*

- 
- 
- *Analyzed terms of trade issues for developing countries and their growth dependency on external economic factors.*

*10. Legacy / Impact on Economics:*



- *Lewis is considered a father of development economics; many growth and development models build on or compare with his dual-economy framework.*
- *Influenced policy in developing countries concerning industrialization, labour migration, education and external trade.*
- *His work encouraged empirical and historical approaches to economic development.*

YEAR 1980



## LAWRENCE KLEIN

1. Full Name: *Lawrence Robert Klein*
2. Date of Birth and Death: *14 September 1920– 20 October 2013*
3. Nationality: *American*
4. Year of Nobel Prize in Economics: *1980*
5. Institution/University at the Time of Award: *University of Pennsylvania, Philadelphia, PA, USA*
6. Field of Contribution / Research Area: *Econometrics, Macroeconomic Modelling and Forecasting; analysis of economic fluctuations and economic policy*
7. Citation: *“For the creation of econometric models and the application to the analysis of economic fluctuations and economic policies”*
8. Major Works / Publications:
  - *Economic Fluctuations in the United States, 1921–1941 (1950)*
  - *An Econometric Model of the United States, 1929–52 (with A. S. Goldberger, 1955)*
  - *The Keynesian Revolution (1947)*
  - *The Wharton Econometric Forecasting Model (with M. K. Evans, 1967)*
  - *A Textbook of Econometrics (1973)*
9. Key Contributions:
  - *Developed large-scale macro-econometric models to forecast economic trends (e.g. output, consumption, investment, exports) and to study the effects of policy changes.*
  - *Predicted post-World War II economic boom, countering fears of another depression.*

- 
- 
- *Initiated Project LINK, which integrated econometric models of many countries to improve global forecasting and to study international economic relationships.*
  - *Founded Wharton Econometric Forecasting Associates to apply forecasting models to both public and private decision-making*

*10. Legacy / Impact on Economics:*

- *His work made econometric modelling central to policy analysis and forecasting in both government and academia.*
- *Provided tools that are still in use (or whose descendants are) for understanding and predicting business cycles, international trade flows, investment, inflation etc.*
- *helped establish standards/expectations for model validation, forecasting performance, and policy simulation.*
- *Trained many students and influenced institutions; his LINK project is used for global forecasting by multiple countries, and his models bridged between developed, developing, and centrally planned economies.*

YEAR 1981




## JAMES TOBIN

1. Full Name: James Tobin
2. Date of Birth and Death: 5 March 1918 – 11 March 2002
3. Nationality: American
4. Year of Nobel Prize in Economics: 1981
5. Institution/University at the Time of Award: Yale University, USA
6. Field of Contribution / Research Area: Macroeconomics, Financial Markets, Monetary Policy
7. Citation: "For his analysis of financial markets and their relations to expenditure decisions, employment, production and prices."
8. Major Works / Publications:
  - *A General Equilibrium Approach to Monetary Theory*
  - *Asset Accumulation and Economic Activity*
  - Introduced the concept of Tobin's  $q$  (1969)
  - Proposed the idea of the Tobin tax on currency speculation
9. Key Contributions:
  - Developed the  $q$ -theory of investment, showing how firms' investment decisions depend on the ratio between market value and replacement cost of capital.
  - Built macroeconomic models connecting financial markets with employment, production, and pricing.
  - Advocated Keynesian policies, supporting government intervention to stabilize markets.



• *Proposed the Tobin tax as a way to reduce harmful currency speculation.*

*10. Legacy / Impact on Economics:*

- *His models remain central to modern macroeconomic theory.*
  - *Influenced U.S. economic policy in the mid-20th century.*
  - *"Tobin's q" is still widely used in corporate finance and investment analysis.*
  - *His Tobin tax continues to inspire global debates on financial regulation.*
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YEAR 1982



## GEORGE STIGLER

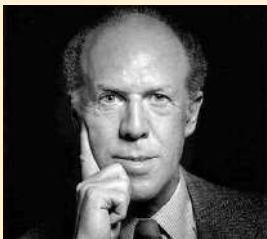
1. *Full Name: George Joseph Stigler*
2. *Date of Birth and Death: 17 January 1911 – 1 December 1991*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 1982*
5. *Institution/University at the Time of Award: University of Chicago, Chicago, IL, USA*
6. *Field of Contribution / Research Area: Industrial Organization; Economics of Regulation; Economics of Information; Market Processes*
7. *Citation: "For his seminal studies of industrial structures, functioning of markets, and causes and effects of public regulation."*
8. *Major Works / Publications:*
  - *The Theory of Price (1942)*
  - *The Intellectual and the Market Place (1964)*
  - *Essays in the History of Economic Thought (1965)*
  - *The Citizen and the State (1975)*
  - *The Economist as Preacher, and Other Essays (1982)*
9. *Key Contributions:*
  - *Advanced the study of industrial structures and how firms' size, market power, and competition interact in real markets.*
  - *Explored how public regulation is created, its causes and effects, often showing that regulation tends to be captured by special interests ("regulatory capture").*
  - *Pioneered work in the economics of information, particularly how imperfect information and asymmetric information affect market behaviour.*



10. *Legacy / Impact on Economics:*

- *Stigler's work remains foundational in industrial organization, regulation theory, and information economics.*
- *Many regulatory policies and antitrust laws draw on insights about how regulation might fail or produce unintended consequences due to capture.*
- *His textbooks and writings influenced generations of economists on how to think about price, market structure, and regulation.*

YEAR 1983



## GÉRARD DEBREU


1. *Full Name:* Gérard Debreu
2. *Date of Birth and Death:* 4 July 1921 – 31 December 2004
3. *Nationality:* French-American
4. *Year of Nobel Prize in Economics:* 1983
5. *Institution/University at the Time of Award:* University of California, Berkeley, USA
6. *Field of Contribution / Research Area:* General Equilibrium Theory, Mathematical Economics
7. *Citation (as given by the Nobel Committee):* "For having incorporated new analytical methods into economic theory and for his rigorous reformulation of the theory of general equilibrium."
8. *Major Works / Publications:*
  - *Theory of Value: An Axiomatic Analysis of Economic Equilibrium (1959)*
  - *Contributions to the mathematical formalization of economic theories*
9. *Key Contributions:*
  - *Provided a rigorous mathematical foundation for general equilibrium theory.*
  - *Used advanced mathematics (topology) to prove the existence of economic equilibrium.*
  - *Helped transform economics into a more precise and formalized discipline.*
10. *Legacy / Impact on Economics:*
  - *His work established the modern framework of microeconomic theory.*
  - *Inspired a generation of economists to use mathematical rigor in economics.*
  - *Strengthened the role of economics as a scientific discipline by connecting it with mathematical logic.*

YEAR 1984



## JOHN RICHARD STONE

1. *Full Name:* John Richard Nicholas Stone
2. *Date of Birth and Death:* 30 August 1913 – 6 December 1991
3. *Nationality:* British
4. *Year of Nobel Prize in Economics:* 1984
5. *Institution/University at the Time of Award:* University of Cambridge, UK
6. *Field of Contribution / Research Area:* National Income Accounting, Applied Economics, Econometrics
7. *Citation:* "For having made fundamental contributions to the development of systems of national accounts and hence greatly improved the basis for empirical economic analysis."
8. *Major Works / Publications:*
  - *The Measurement of Consumers' Expenditure and Behaviour in the United Kingdom, 1920–1938* (with D.A. Rowe, R. Stone & J.E. Meade, 1944)
  - *Social Accounting and Economic Models* (1952)
  - *Contributions to the development of the United Nations System of National Accounts (SNA)*
9. *Key Contributions:*
  - *Developed a comprehensive system of national accounts, which became the international standard.*
  - *Created consistent methods to measure income, consumption, and production.*
  - *Improved economic forecasting and policy analysis through empirical data.*



*10. Legacy / Impact on Economics:*



- *Known as the “father of national income accounting.”*
- *His frameworks are still used by governments and international organizations (like the UN, IMF, and World Bank).*
- *Made economics more policy-relevant by linking theory with measurable statistic*

YEAR 1985



## FRANCO MODIGLIANI

1. Full Name: *Franco Modigliani*
2. Date of Birth and Death: *18 June 1918 - 25 September 2003*
3. Nationality: *Italian-American*
4. Year of Nobel Prize in economics: *1985*
5. Institution/University at the Time of Award: *Massachusetts Institute of Technology (MIT)*
6. Field of Contribution / Research Area: *Household savings, financial markets, corporate finance*
7. Citation: *"For his pioneering analyses of saving and of financial markets."*
8. Major works/Publications:
  - *Life-Cycle Hypothesis of Saving* - Proposed that individuals plan their consumption and savings throughout their lifetime, balancing spending between working years and retirement.
  - *Modigliani-Miller Theorem (with Merton Miller)* - A groundbreaking theory in corporate finance that showed, under certain conditions, a firm's value is independent of its capital structure.
9. Key Contributions:
  - *Developed the life-cycle hypothesis, which remains central to modern macroeconomics and pension economics.*
  - *Revolutionized corporate finance theory with the Modigliani-Miller theorem, influencing how firms make financing decisions.*

- 
- 
- *Provided a bridge between microeconomic behavior of households and macroeconomic outcomes in savings and investment.*

*10. Legacy / Impact on Economics: Modigliani's research continues to shape both personal financial planning and corporate financial strategies. His insights have influenced policies on pensions, retirement savings, and capital markets worldwide.*



YEAR 1986



## JAMES BUCHANAN.JR

1. *Full Name: James M. Buchanan Jr*
2. *Date of Birth and Death : 3 October 1919 -19 October 2013*
3. *Year of Nobel Prize in economics: 1986*
4. *Nationality: American*
5. *Institution/University at the Time of Award: George Mason University*
6. *Field of Contribution / Research Area: Public choice theory, constitutional economics*
7. *Citation: For his development of the contractual and constitutional bases for the theory of economic and political decision-making.*
8. *Major Works / Publications: -*
  - *The Calculus of Consent (1962, with Gordon Tullock)*
  - *Laid the foundations of public choice theory, analyzing collective decision making.*
  - *The Limits of Liberty (1975)*
  - *Explored how rules and institutions are essential for balancing freedom and order in society.*
9. *Key Contributions:*
  - *Founded public choice theory, applying economic tools to understand political decision-making.*
  - *Emphasized that politicians and bureaucrats, like individuals, act their own self-interest rather than as benevolent social planners.*
  - *Studied how constitutional rules shape policy outcomes and the functioning of democracies.*



*10. Legacy / Impact on Economics:*

- *Buchanan reshaped the study of political economy, highlighting that government actions must be analyzed through the lens of incentives.*
- *His ideas laid the groundwork for constitutional economics and continue to influence debates on governance and policy reforms.*

YEAR 1987



## ROBERT SOLOW

1. *Full Name: Robert Merton Solow*
2. *Date of birth and Death: 23 Aug 1924 – 21 Dec 2023*
3. *Nationality: American*
4. *Year of Nobel Prize: 1987*
5. *Institution/University at the Time of Award: Massachusetts Institute of Technology (MIT), Cambridge, MA, USA*
6. *Field: Economic Growth Theory*
7. *Citation: "For his contributions to the theory of economic growth."*
8. *Major Works:*
  - *A Contribution to the Theory of Economic Growth (1956)*
  - *Technical Change and the Aggregate Production Function (1957)*
9. *Key Contributions:*
  - *Developed the Solow Growth Model, showing that technology and education drive growth*
  - *Originated the "total factor productivity" concept, quantifying growth beyond capital/labor*
10. *Legacy/Impact: His methods shape growth analysis worldwide and have influenced new growth theories*

YEAR 1988



## MAURICE ALLAIS



1. Full Name: *Maurice Allais*
2. Date of Birth and Death: *13 May 1911-9 October 2010*
3. Nationality: *French*
4. Year of Nobel Prize in Economics: *1988*
5. Institution/University at the Time of Award: *École Nationale Supérieure des Mines de Paris, Paris, Nanterre University*
6. Field of Contribution: *Theory of markets and efficient utilization of resources*
7. Citation: *"for his pioneering contributions to the theory of markets and efficient utilization of resources"*
8. Major Works: *OLG model, Allais paradox, Golden Rule savings rate*
9. Key Contributions: *Pioneering work on market theory and resource allocation*
10. Legacy/Impact: *Maurice Allais's work has significantly contributed to our understanding of market behavior and resource allocation*

YEAR 1989



## TRYGVE HAAVELMO

1. *Full Name: Trygve Magnus Haavelmo*
2. *Date of Birth and Death: 13 December 1911 – 28 May 1999*
3. *Nationality: Norwegian*
4. *Year of Nobel Prize in Economics: 1989*
5. *Institution/University at the Time of Award: University of Oslo, Oslo, Norway.*
6. *Field of Contribution / Research Area: Foundations of econometrics – especially integrating probability theory in econometrics; analyses of simultaneous equation models; statistical inference in macro-economic relations.*
7. *Citation: “For his clarification of the probability theory foundations of econometrics and his analyses of simultaneous economic structures”*
8. *Major Works / Publications:*
  - *“The Statistical Implications of a System of Simultaneous Equations” (Econometrica, 1943)*
  - *The Probability Approach in Econometrics (1944, doctoral thesis, published as supplement to Econometrica)*
  - *A Study in the Theory of Economic Evolution (1954)*
  - *A Study in the Theory of Investment (1960)*
9. *Key Contributions:*
  - *Haavelmo introduced a rigorous probabilistic foundation to econometrics, showing how probability theory could be applied to economic models to allow estimation and hypothesis testing.*

- 
- 
- He clarified the problems with simultaneous equations in economics (i.e. multiple interdependent relationships) and how one can account for them statistically.
  - Developed methods that help in forecasting and policy analysis by enabling the estimation of economic relationships in systems rather than isolated ones.
  - His theoretical work on investment behaviour and economic evolution addressed why countries develop differently and how investment in real capital adjusts over time.

10. *Legacy / Impact on Economics:*

- Haavelmo's work laid the foundations for modern econometric theory; much of what is standard methodology today in econometrics (e.g. identification, estimation in simultaneous systems) traces back to his contributions.
- His probabilistic approach made it possible for economists to test theories with observational data more reliably, even when controlled experiments are not feasible.
- Influenced both theory and applied work – forecasting, policy evaluation, systems of economic relations among sectors, etc.
- As a teacher and mentor in Norway, Haavelmo influenced generations of economists; he helped build up the field in his country and internationally.

YEAR 1990 (A)



## HARRY MARKOWITZ

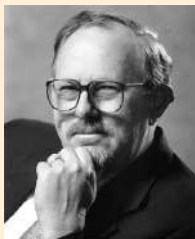
1. Full Name: *Harry Max Markowitz*
2. Date of Birth and Death: *24 August 1927 - 24 August 2023*
3. Nationality: *American*
4. Year of Nobel Prize in Economics: *1990*
5. Institution/University at the Time of Award: *City University of New York (Baruch College), New York, NY, USA*
6. Field of Contribution / Research Area: *Financial Economics – in particular portfolio theory / modern portfolio theory; risk-return tradeoff; optimal diversification; mean-variance analysis.*
7. Citation: *“For their pioneering work in the theory of financial economics”*
8. Major Works / Publications:
  - *Portfolio Selection (1952, essay in The Journal of Finance)*
  - *Portfolio Selection: Efficient Diversification of Investments (1959)*
  - *The “Critical Line Method” for computation of mean-variance frontiers (1956)*
  - *Work on Sparse Matrix Methods (with applications in large-scale optimization)*
  - *Development of programming / simulation language SIMSCRIPT*
9. Key Contributions:
  - *Markowitz’s key insight was that investment decisions should consider both return and risk simultaneously; focusing only on maximizing expected return is incomplete because returns are uncertain.*
  - *He introduced the notion of variance (and covariance between asset returns) as the measure of risk, and showed how asset correlation matters for diversification.*

- Developed the efficient frontier – the set of portfolios that give the maximum expected return for a given level of risk (or equivalently minimum risk for given return).
- His work formalized mean-variance optimization, enabling portfolio managers to use mathematical programming methods to choose portfolios.
- Extended his interests beyond purely portfolio theory: advancing sparse matrix computational techniques, simulation languages (SIMSCRIPT), and applying mathematical / computational methods to business decisions under uncertainty.

#### 10. Legacy / Impact on Economics:


- Modern Portfolio Theory (MPT) changed investment management practice: diversification, efficient portfolios, risk-return tradeoffs are now basic to financial advice, asset management, pension funds, etc.
- MPT is a foundation for later theories like the Capital Asset Pricing Model (CAPM) and many asset pricing and risk management models.
- His computational and mathematical contributions (sparse matrices, simulation tools) also influenced operations research, computational finance, and how large-scale financial and industrial models are built.
- His ideas led to more rigorous empirical testing of portfolio behaviour, more quantitative risk management in finance, and the widespread use of optimization in finance. (Investopedia)
- Broader influence in both academia and industry; his work bridged theory and practice. His legacy lives in textbooks, investment firms, software, and the way we teach finance.

YEAR 1990 (B)



## WILLIAM SHAPE

1. Full Name: *William Forsyth Sharpe*
2. Date of Birth and Death: *16 June 1934 – 19 March 2025*
3. Nationality: *American*
4. Year of Nobel Prize in Economics: *1990*
5. Institution/University at the Time of Award: *Stanford University, Stanford, California, USA*
6. Field of Contribution / Research Area: *Financial Economics, Portfolio Theory, Capital Asset Pricing*
7. Citation: *"For their pioneering work in the theory of financial economics."* (shared with Harry M. Markowitz and Merton H. Miller)
8. Major Works / Publications:
  - *Portfolio Theory and Capital Markets*
  - *Investments* (co-authored)
  - *Asset Allocation Tools*
9. Key Contributions:
  - *Developed the Capital Asset Pricing Model (CAPM), a cornerstone of modern portfolio theory.*
  - *Introduced the Sharpe Ratio, a widely used measure of risk-adjusted investment performance.*
  - *Advanced understanding of how investors can optimize risk-return trade-offs.*



*10. Legacy / Impact on Economics:*

- *His work transformed investment management and financial economics.*
- *The Sharpe Ratio remains a standard tool for evaluating portfolio performance globally.*
- *CAPM is still a foundational concept in both academic research and practical finance.*

## YEAR 1990 (C)



# MERTON MILLER

1 *Full Name: Merton Howard Miller*

2 *Date of Birth and Death: 16 May 1923 – 3 June 2000*

3 *Nationality: American*

4 *Year of Nobel Prize in Economics: 1990*

5 *Institution/University at the Time of Award: University of Chicago, Illinois, USA*

6 *Field of Contribution / Research Area: Corporate Finance, Financial Economics*


7 *Citation: "For their pioneering work in the theory of financial economics." (shared with Harry M. Markowitz and William F. Sharpe)*

8 *Major Works / Publications:*

- *The Theory of Finance (with Franco Modigliani)*
- *Merton Miller on Derivatives*
- *Financial Innovations and Market Volatility*

9 *Key Contributions:*

- *Co-developed the Modigliani-Miller Theorem (MM Theorem), which established foundational principles of corporate finance.*
- *Pioneered modern research in capital structure and financial markets.*
- *Advanced understanding of how taxes, bankruptcy costs, and market conditions affect corporate financial decisions.*



*10. Legacy / Impact on Economics:*


- *Revolutionized the field of corporate finance by showing that under certain assumptions, a firm's value is independent of its capital structure.*
- *His work laid the foundation for modern financial economics and continues to influence corporate finance theory and practice worldwide.*

YEAR 1991



## RONALD COASE

1. Full Name: Ronald Harry Coase
2. Date of Birth and Death: 29 December 1910 - 2 September 2013
3. Nationality: British
4. Year of Nobel Prize in Economics: 1991
5. Institution/University at the Time of Award: University of Chicago, Law School
6. Field of Contribution / Research Area:
  - Law and Economics
  - Institutional Economics
  - Transaction Costs and Property Rights
7. Citation: "For his discovery and clarification of the significance of transaction costs and property rights for the institutional structure and functioning of the economy."
8. Major works/Publications:
  - *The Nature of the Firm* (1937) – explained why firms exist and how transaction costs shape them.
  - *The Problem of Social Cost* (1960) – introduced what became known as the Coase Theorem.
  - *Essays on Economics and Economists* (1994).
9. Key Contributions:
  - Developed the concept of transaction costs in economic activity.
  - Formulated the Coase Theorem, which shows that under zero transaction costs, resource allocation will be efficient regardless of initial property rights.
  - Highlighted the importance of property rights and legal frameworks for market efficiency.

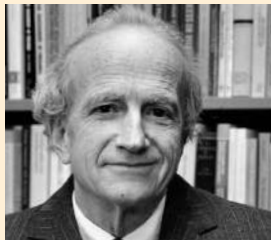


- *Laid the foundation for the modern field of Law and Economics.*

*10. Legacy/Impact on Economics:*

- *Revolutionized how economists and policymakers think about firms, markets, and institutions.*
- *Influenced the development of fields such as Law and Economics, Institutional Economics, and Environmental Economics.*
- *His ideas are widely applied in analyzing issues like pollution control, regulation, contracts, and the role of institutions in economic development.*
- *Lived to be 102 years old, remaining an active intellectual presence well into his later years.*

YEAR 1992



## GARY S. BECKER

1. Full Name: Gary Stanley Becker
2. Date of Birth and Death: 2 December 1930 – 3 May 2014
3. Nationality: American
4. Year of Nobel Prize in Economics: 1992
5. Institution/University at the Time of Award: University of Chicago, USA
6. Field of Contribution / Research Area:
  - Application of economic analysis to human behavior and social issues
  - Economics of discrimination, crime, family, and human capital
7. Citation: "For having extended the domain of microeconomic analysis to a wide range of human behavior and interaction, including nonmarket behavior"
8. Major works/Publications:
  - Human Capital (1964)
  - The Economics of Discrimination (1957)
  - A Treatise on the Family (1981)
  - Numerous influential papers on crime, family economics, and social behavior
9. Key Contributions:
  - Introduced human capital theory, showing education and skills as key drivers of productivity and earnings.
  - Applied economic methods to social issues such as crime, marriage, fertility, and racial discrimination.
  - Expanded the scope of economics beyond markets into sociology and everyday decision-making.



*10. Legacy/Impact on Economics:*



- *Pioneered the field of socioeconomics and inspired interdisciplinary work between economics, sociology, and demography.*
- *His approach reshaped how economists and policymakers understand education, inequality, family structures, and crime.*
- *Regarded as one of the most influential economists of the 20th century, continuing the “Chicago School” tradition*

YEAR 1993 (A)



## DOUGLAS NORTH

1. *Full Name: Douglass Cecil North*
2. *Date of Birth and Death: 5 November 1920 - 23 November 2015*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 1993*
5. *Institution/University at the Time of Award: Washington University, St. Louis, Missouri, USA*
6. *Field of Contribution / Research Area: Economic History; Institutions; Institutional Economics; New Economic History (cliometrics)*
7. *Citation (as given by the Nobel Committee): "For having renewed research in economic history by applying economic theory and quantitative methods in order to explain economic and institutional change."*
8. *Major Works / Publications:*
  - *Many works on how institutions (legal, political, social) evolve and how they shape economic performance and growth.*
  - *Key historical analyses of long-term development, comparing Europe and United States, role of transaction costs, role of property rights etc.*
9. *Key Contributions:*
  - *Argued that not just technology or resources, but institutions (rules of game, informal norms, formal laws) are central to economic performance over time.*
  - *Combined quantitative methods with history to test hypotheses about growth, institutional development.*



• *Helped formalize idea that institutions affect incentives, reduce costs of transactions, impact stability, investment etc.*

*10. Legacy / Impact on Economics:*



- *Institutional economics is now a major subfield; his work influences economics, political science, development studies.*
- *Influenced how economists think about path-dependence, institutional change, and why some economies stagnate due to institutional failures.*
- *Provided empirical and theoretical tools for understanding the historical roots of contemporary differences in prosperity.*

## YEAR 1993 (B)



# ROBERT FOGEL

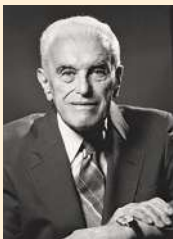
1. *Full Name: Robert William Fogel*
2. *Date of Birth and Death: 1 July 1927– 11 June 2013*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 1993*
5. *Institution/University at the Time of Award: University of Chicago, Chicago, IL, USA*
6. *Field of Contribution / Research Area: Economic History; Quantitative methods in history; Demography; Institutions; Cliometrics.*
7. *Citation: "For having renewed research in economic history by applying economic theory and quantitative methods in order to explain economic and institutional change."*
8. *Major Works / Publications:*
  - *His analysis of the role of railroads in 19th-century U.S. growth.*
  - *His work on slavery as an economic institution, "Time on the Cross" (with Stanley Engerman) is a prominent publication.*
  - *Studies in historical demography; relation of nutrition, mortality to growth.*
9. *Key Contributions:*
  - *Showed that some elements of conventional historical narrative (e.g. the indispensability of railroads) have been overestimated*
  - *introduced counterfactual analysis to evaluate what might have happened without certain institutions or infrastructure.*

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- *Demonstrated that slavery, while morally abhorrent, was economically efficient under certain institutional and economic conditions; its abolition was driven by political decisions rather than economic collapse.*
  - *Pioneered use of statistical techniques, large datasets, combining economic theory with historical data.*

*10. Legacy / Impact on Economics:*



- *Helped establish the “New Economic History” (cliometrics) as a rigorous field.*
- *Influenced how economic historians and economists treat long-run growth, institutions, infrastructure, demographic transitions.*
- *Rewriting portions of economic history with better empirical tests; more careful use of data and methods.*

## YEAR 1994 (A)



# JOHN HARSANYI

1. *Full Name:* John Charles Harsanyi
2. *Date of Birth and Death:* 29 May 1920 - 9 August 2000
3. *Nationality:* Hungarian-American
4. *Year of Nobel Prize in Economics:* 1994
5. *Institution/University at the Time of Award:* University of California, Berkeley, USA
6. *Field of Contribution / Research Area:* Game Theory; particularly games of incomplete information, non-cooperative games, economics of information, and utilitarian ethics.
7. *Citation:* "For their pioneering analysis of equilibria in the theory of non-cooperative games."
8. *Major Works / Publications:*
  - "Games with Incomplete Information Played by 'Bayesian' Players" (Three parts) – foundational work on modelling incomplete information in games.
  - *A General Theory of Equilibrium Selection in Games* (with Reinhard Selten), 1988.
  - Other earlier papers: e.g. "Cardinal Utility in Welfare Economics and in the Theory of Risk-Taking", "Bargaining in Ignorance of the Opponent's Utility Function"
9. *Key Contributions:*
  - Provided a formal analysis of games with incomplete information, introducing methods to handle Bayesian games, which allowed players to have uncertainty about other players' preferences or types.

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- *Extended non-cooperative game theory: Nash had given foundational equilibria, Harsanyi made it possible to model what happens when agents have incomplete information.*
  - *Contributed to ethics/political philosophy via utilitarian ethics and social choice implications.*

*10. Legacy / Impact on Economics:*



- *His work made game theory vastly more applicable to real economic, political, and social situations where participants do not have full information—this is common in markets, auctions, contracts, regulation, etc.*
- *The concepts of Bayesian games are now standard in the theory of economics of information, contract theory, mechanism design.*
- *Influenced work in welfare economics, social choice theory, political economy.*
- *His contributions helped economists and policymakers better reason about strategy under uncertainty, incomplete information.*

## YEAR 1994 (B)



## JOHN NASH JR.

1. *Full Name: John Forbes Nash, Jr.*
2. *Date of Birth and Death: 13 June 1928 - 23 May 2015*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 1994*
5. *Institution/University at the Time of Award: Princeton University, Princeton, New Jersey, USA*
6. *Field of Contribution / Research Area: Game Theory; non-cooperative games; the concept of equilibrium in games.*
7. *Citation: "For their pioneering analysis of equilibria in the theory of non-cooperative games."*
8. *Major Works / Publications:*
  - *His doctoral thesis, Non-cooperative Games (1950), introduced what is now called the Nash equilibrium.*
  - *Various works in mathematics as well (e.g., in differential geometry, partial differential equations, embedding theorems), though for the prize, the focus is on game theory.*
9. *Key Contributions:*
  - *Defined the Nash equilibrium: in non-cooperative games, situations where no player can benefit by unilaterally changing strategy given the other players' strategies.*
  - *His equilibrium concept applies broadly: economics, social sciences, evolutionary biology, etc.*

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- Clarified cooperative vs non-cooperative game situations and provided foundational structure for much of modern economic theory in strategic interactions.

#### 10. Legacy / Impact on Economics:

- The Nash equilibrium is one of the most central concepts in modern microeconomic theory, industrial organization, mechanism design, auctions.
- Used everywhere in modeling strategic behaviour: firms, markets, oligopolies, bargaining etc.
- His work paved way for later economists to extend game theory in many directions (incomplete information, dynamic games, evolutionary games).
- Also had strong cultural impact: portrayal in popular culture (e.g. *A Beautiful Mind*), bringing awareness of the struggles of mental illness

## YEAR 1994 (C)




# REINHARD SELTEN

1. *Full Name: Reinhard Justus Reginald Selten*
2. *Date of Birth and Death: October 1930 - 23 August 2016*
3. *Nationality: German*
4. *Year of Nobel Prize in Economics: 1994*
5. *Institution/University at the Time of Award: Rheinische Friedrich-Wilhelms-Universität, Bonn, Germany*
6. *Field of Contribution / Research Area: Game Theory—non-cooperative games, equilibrium refinement (e.g., subgame perfection), experimental game theory, evolutionary games.*
7. *Citation: "For their pioneering analysis of equilibria in the theory of non-cooperative games."*
8. *Major Works / Publications:*
  - *His contributions include defining subgame perfection (refinement of Nash equilibrium to eliminate implausible equilibria in extensive form games)*
  - *Work in experimental economics and evolutionary game theory*
  - *Various significant papers, e.g., on price-making firms, and on behavior in repeated games.*
9. *Key Contributions:*
  - *Developed refinements of Nash equilibrium to strengthen predictive power (subgame perfect equilibrium)*
  - *Investigated behavior in repeated games and evolutionary settings, experimental validation of game theory predictions.*



• *Helped bring empirical and experimental methods into strategic game theory.*

**10. Legacy / Impact on Economics:**



- *Influenced a generation of research in game theory that is more applicable to real strategic situations with credibility, time structure, repeated interactions.*
  - *His equilibrium refinements are standard tools in economic theory, industrial organization, contract theory.*
  - *Through experimental game theory, helped bridge theory with observed behavior.*
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## YEAR 1995



## ROBERT LUCAS JR.

1. *Full Name: Robert Emerson Lucas Jr.*
2. *Date of Birth and Death: 15 September 1937 – 15 May 2023*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 1995*
5. *Institution/University at the Time of Award: University of Chicago, USA*
6. *Field of Contribution / Research Area: Macroeconomics, Rational Expectations, Economic Growth*
7. *Citation: "For having developed and applied the hypothesis of rational expectations, and thereby having transformed macroeconomic analysis and deepened our understanding of economic policy."*
8. *Major Works / Publications:*
  - *Expectations and the Neutrality of Money (1972)*
  - *Studies in Business-Cycle Theory (1981)*
  - *Models of Business Cycles (1987)*
  - *Contributions to growth theory (the "Lucas Model")*
9. *Key Contributions:*
  - *Introduced the Rational Expectations Hypothesis, showing that individuals and firms use all available information when making decisions.*
  - *Formulated the Lucas Critique, arguing that traditional macroeconomic models cannot predict the effects of policy changes if they ignore changing expectations.*
  - *Developed models of long-term economic growth, highlighting the role of human capital and technology.*



• Revolutionized thinking about business cycles, inflation, and government policy effectiveness.

10. *Legacy / Impact on Economics:*

- Considered the founder of modern macroeconomic theory.
- Major figure of the "Chicago School" of economics.
- His ideas reshaped central banking and policy-making worldwide.
- Influenced debates on the limits of government intervention and the importance of credibility in monetary policy.



## YEAR 1996 (A)



# JAMES MIRRLEES

1. *Full Name: James Alexander Mirrlees*
2. *Date of Birth and Death: 5 July 1936 – 29 August 2018*
3. *Nationality: British (Scottish)*
4. *Year of Nobel Prize in Economics: 1996*
5. *Institution/University at the Time of Award: University of Cambridge, UK*
6. *Field of Contribution / Research Area:*
  - *Public economics*
  - *Incentive theory*
  - *Asymmetric information*
  - *Optimal taxation*
7. *Citation: "For their fundamental contributions to the economic theory of incentives under asymmetric information."*
8. *Major Works / Publications:*
  - *An Exploration in the Theory of Optimum Income Taxation (1971)*
  - *Contributions to optimal tax theory and welfare economics*
9. *Key Contributions:*
  - *Developed models of optimal income taxation showing how governments can design tax systems that balance efficiency and equity when information about individuals' abilities is incomplete.*
  - *His work became foundational in modern public finance.*



*10. Legacy / Impact on Economics:*

- *Shaped the field of mechanism design and contract theory.*
- *Influenced modern tax policy and welfare reforms across many countries.*
- *His optimal tax framework continues to be used as a benchmark in economic research and policymaking.*

## YEAR 1996 (B)



# WILLIAM VICKREY

1. *Full Name: William Spencer Vickrey*
2. *Date of Birth and Death: 21 June 1914 – 11 October 1996*
3. *Nationality: Canadian-born American*
4. *Year of Nobel Prize in Economics: 1996*
5. *Institution/University at the Time of Award: Columbia University, New York, USA*
6. *Field of Contribution / Research Area:*
  - *Auction theory*
  - *Public economics*
  - *Pricing of public goods*
  - *Incentives under asymmetric information*
7. *Citation: "For their fundamental contributions to the economic theory of incentives under asymmetric information."*
8. *Major Works / Publications:*
  - *Counter speculation, Auctions, and Competitive Sealed Tenders (1961)*
  - *Work on congestion pricing for traffic management*
  - *Contributions to auction design and mechanism design*
9. *Key Contributions:*
  - *Introduced the Vickrey auction (second-price sealed-bid auction), which incentivizes truthful bidding.*
  - *Developed the concept of congestion pricing, advocating variable road tolls to reduce traffic jams.*
  - *Advanced theories of optimal resource allocation under uncertainty.*



*10. Legacy / Impact on Economics:*



- *Vickrey auctions are widely used in practice today, including telecom spectrum sales, online advertising auctions, and other competitive bidding processes.*
- *His congestion pricing model has influenced modern urban transportation policies.*
- *Regarded as a pioneer in combining theory with practical public policy.*

## YEAR 1997 (A)



# ROBERT MERTON

1. *Full Name: Robert Campbell Merton*
2. *Date of Birth and Death: 31 July 1944 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 1997*
5. *Institution/University at the Time of Award: Harvard University, Cambridge, USA*
6. *Field of Contribution / Research Area: Financial Economics, specifically option valuation, derivatives, continuous-time finance, risk management, consumption and investment decisions over time.*
7. *Citation: "For a new method to determine the value of derivatives" developed in collaboration with Scholes (and Murphy of Black who had died) "These three scholars worked on the same problem: option valuation. ..."*
8. *Major Works / Publications:*
  - *Continuous-Time Finance (1990) – a major book that develops financial economics in continuous time.*
  - *His generalization of the Black-Scholes formula to include dividends, etc.*
  - *Many articles on consumption and investment over time, risk management, asset pricing.*
9. *Key Contributions:*
  - *Extended option pricing models (originally Black & Scholes) to a more general framework, making them applicable under more realistic conditions (like dividend payments, variable interest rates, etc.)*

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- *Developed methods for intertemporal consumption, investment decisions – linking financial economics with macroeconomic behavior over time.*
  - *Influenced risk management practices and the growth of derivative markets.*

*10. Legacy / Impact on Economics:*

- *The valuation of derivatives has become a standard tool in finance, risk management, corporate finance.*
- *Models he helped develop are used in trading, hedging, pricing insurance contracts, structured financial products, mortgages, etc.*
- *His work has influenced regulation of financial markets, much of modern quantitative finance.*

## YEAR 1997 (B)



# MYRON SCHOLES

1. *Full Name: Myron Samuel Scholes*
2. *Date of Birth and Death: 1 July 1941-living*
3. *Nationality: Canadian-American*
4. *Year of Nobel Prize in Economics: 1997*
5. *Institution/University at the Time of Award: Stanford University, Stanford Graduate School of Business, USA*
6. *Field of Contribution / Research Area: Financial Economics; option valuation; risk management; empirical and theoretical work on asset pricing; the Black-Scholes model.*
7. *Citation: "For a new method to determine the value of derivatives ..." developed by Merton and Scholes (with Fischer Black)*
8. *Major Works / Publications:*
  - *The original Black-Scholes paper: "The Pricing of Options and Corporate Liabilities" (1973) by Black & Scholes.*
  - *Empirical work on the effect of dividends on stock market values; estimation of betas; etc.*
9. *Key Contributions:*
  - *Co-originator (with Fischer Black) of the Black-Scholes formula for the pricing of options, which provided a rigorous method for valuing derivatives.*
  - *Clarified how dividends affect option pricing; contributed to empirical validation/adjustment of asset pricing models.*
  - *Along with Merton, laid groundwork for enormous growth in derivatives markets, risk management, financial engineering.*



*10. Legacy / Impact on Economics:*

- *The Black-Scholes model is taught in every financial economics curriculum and used by practitioners globally.*
- *Risk management in finance, corporate finance, insurance, quantitative trading heavily depend on the methods they developed.*
- *Their work raised awareness of how mathematical tools can be used to understand and manage financial risk.*

YEAR 1998



## AMARTYA SEN



1. Full Name: *Amartya Kumar Sen*
2. Date of Birth and Death : *3 November 1933– living*
3. Nationality: *Indian*
4. Year of Nobel Prize in Economics: *1998*
5. Institution/University at the Time of Award: *Trinity College, Cambridge, UK*
6. Field of Contribution / Research Area: *Welfare Economics and Social Choice Theory*
7. Citation: *“For his contributions to welfare economics and for his work on poverty and famine.”*
8. Major Works / Publications:
  - *Poverty and Famines (1981)*
  - *Development as Freedom (1999)*
  - *The Idea of Justice (2009)*
9. Key Contributions:
  - *Showed how poverty is not just lack of food, but lack of access and entitlement.*
  - *Emphasized that development should be measured by freedoms and opportunities people enjoy, not just income.*
  - *Created new ways to evaluate welfare and inequality.*
10. Legacy / Impact on Economics:
  - *His work influenced the Human Development Index (HDI) used by the UN.*
  - *Inspired policies focused on education, healthcare, and equality.*
  - *Considered one of the most influential thinkers on poverty and development*

YEAR 1999



## ROBERT MUNDELL

1. *Full Name: Robert Alexander Mundell*
2. *Date of Birth– Death: 24 October 1932 – 4 April 2021*
3. *Nationality: Canadian*
4. *Year of Nobel Prize in Economics: 1999*
5. *Institution/University at the Time of Award: Columbia University, New York, USA*
6. *Field of Contribution / Research Area: International macroeconomics, monetary dynamics, optimum currency areas*
7. *Citation: “For his analysis of monetary and fiscal policy under different exchange rate regimes and his analysis of optimum currency areas.”*
8. *Major Works / Publications:*
  - *A Theory of Optimum Currency Areas (1961)*
  - *Capital Mobility and Stabilization Policy under Fixed and Flexible Exchange Rates (1963)*
  - *Monetary Theory: Interest, Inflation and Growth in the World Economy (1971)*
  - *Man and Economics (1968)*
  - *The International Monetary System: Conflict and Reform (1965)*
  - *Global Disequilibrium (1990)*
9. *Key Contributions:*
  - *Developed the theory of optimum currency areas, laying the foundation for analyzing when it is beneficial for regions to share a common currency.*
  - *Pioneered open-economy macroeconomic models explaining the interactions of exchange rates, interest rates, and fiscal/monetary policy.*

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- *Demonstrated the constraints of monetary policy under fixed and flexible exchange rate systems, especially in the presence of capital mobility.*

*10. Legacy / Impact on Economics:*

- *Widely regarded as the intellectual father of the euro; his theories deeply influenced the formation of the European Monetary Union.*
- *The Mundell-Fleming model remains a cornerstone in international macroeconomic education and policy discussions.*
- *Inspired decades of research on monetary unions, exchange regimes, and policy trade-offs in global economics.*

## YEAR 2000 (A)



# JAMES HECKMAN

1. Full Name: James Joseph Heckman
2. Date of Birth and Death: 19 April 1944 - living
3. Nationality: American
4. Year of Nobel Prize in Economics: 2000
5. Institution/University at the Time of Award: University of Chicago, Chicago, USA
6. Field of Contribution / Research Area: Microeconometrics, labor economics, sample selection models
7. Citation: "For his development of theory and methods for analyzing selective samples."
8. Major Works / Publications:
  - *Shadow Wages, Market Wages, and Labor Supply* (1974)
  - *Sample Selection Bias as a Specification Error* (1979)
  - *Inequality in America: What Role for Human Capital Policies?* (with Alan Krueger, 2003)
  - *Estimating Treatment Effects for Discrete Outcomes* (1997)
9. Key Contributions:
  - Developed the Heckman correction, a statistical method to correct for sample selection bias in econometric models.
  - Revolutionized empirical research in labor markets, education policy, and program evaluation through robust methods of causal inference.
  - Showed how neglecting selection processes leads to biased estimations in observational studies.



*10. Legacy / Impact on Economics:*

- *His methods are standard tools in econometrics and are essential in evaluating social programs and labor policies.*
- *Enhanced the credibility of non-experimental data in making policy decisions, especially in social sciences.*
- *Strong advocate of early childhood education, using empirical tools to demonstrate its long-term benefits.*

## YEAR 2000 (B)



# DANIEL MCFADDEN

1. *Full Name: Daniel Little McFadden*
2. *Date of Birth and Death: 29 July 1937–living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2000*
5. *Institution/University at the Time of Award: University of California, Berkeley, USA*
6. *Field of Contribution / Research Area: Econometrics, discrete choice modeling, microeconomic behavior*
7. *Citation: "For his development of theory and methods for analyzing discrete choice."*
8. *Major Works / Publications:*
  - *Conditional Logit Analysis of Qualitative Choice Behavior (1974)*
  - *Econometric Models for Probabilistic Choice among Products*
  - *Modeling the Choice of Residential Location*
  - *Numerous contributions to transportation modeling and public policy*
9. *Key Contributions:*
  - *Developed the conditional logit model, foundational in analyzing decisions where individuals choose among discrete alternatives.*
  - *Provided tools to predict individual behavior in areas such as transportation, housing, healthcare, and environmental policy.*
  - *Integrated utility theory with empirical econometrics, linking observed choice to unobserved preferences.*



*10. Legacy / Impact on Economics:*

- *His models are now industry standards in marketing, transportation planning, and applied microeconomics.*
- *Helped economists better understand and predict choices involving limited, mutually exclusive alternatives.*
- *Founded the Econometrics Laboratory at Berkeley, advancing empirical methods in social sciences.*

## YEAR 2001 (A)



# ANDREW SPENCE

1. Full Name: *Andrew Michael Spence*
2. Date of Birth and Death : *7 November 1943 –living*
3. Nationality: *American*
4. Year of Nobel Prize in Economics: *2001*
5. Institution/University at the Time of Award: *Stanford Graduate School of Business, Stanford, California, USA*
6. Field of Contribution / Research Area: *Signaling, markets with asymmetric information*
7. Citation: *“For their analyses of markets with asymmetric information”*
8. Major Works / Publications:
  - *Job Market Signaling (his thesis / early work), etc.*
  - *Papers on signalling and related theory.*
9. Key Contributions:
  - *Formalised signalling models (how less informed agents can deduce private information via signals)*
  - *Explained phenomena like education as a signal, etc.*
  - *Helped show how markets cope (or not) with information asymmetry.*
10. Legacy / Impact on Economics:
  - *Signalling theory is now standard in microeconomic theory, labour economics, contract theory.*
  - *Policy, education, job market credentialing discussions use his insights.*

## YEAR 2001 (B)



# JOSEPH STIGLITZ

1. Full Name: Joseph Eugene Stiglitz
2. Date of Birth and Death : 9 February 1943 -living
3. Nationality: American
4. Year of Nobel Prize in Economics: 2001
5. Institution/University at the Time of Award: Columbia University, New York
6. Field of Contribution / Research Area: Information economics, especially asymmetric information, screening, signaling, market failures, etc.
7. Citation: "For their analyses of markets with asymmetric information"
8. Major Works / Publications:
  - Papers on information asymmetry, screening, moral hazard etc.
  - Also books on income distribution, globalization, public policy etc. (though not all directly within the "motivation" but part of his major works)
9. Key Contributions:
  - Deepening understanding of how imperfections of information affect markets and welfare.
  - Mechanisms such as screening/self-selection; policy implications for regulation, insurance, etc.
  - Influential on development economics, public policy (inequality, markets, regulation).



10. *Legacy / Impact on Economics:*



- *Widely cited; his work is used both in theory and practice.*
- *Helped integrate more realistic assumptions (imperfect info) in mainstream economics.*
- *Influenced global policy debates; many fields use his work (development, trade, inequality).*

YEAR 2001 (C)



## GEORGE AKERLOF

1. Full Name: *George Arthur Akerlof*
2. Date of Birth: *Born 17 June 1940*
3. Nationality: *American*
4. Year of Nobel Prize in Economics: *2001*
5. Institution/University at the Time of Award: *University of California, Berkeley*
6. Field of Contribution / Research Area: *Economics of information; markets with asymmetric information*
7. Citation: *Awarded "for their analyses of markets with asymmetric information."*
8. Major Works / Publications:
  - *"The Market for 'Lemons': Quality Uncertainty and the Market Mechanism" (Quarterly Journal of Economics, 1970)*
  - *Personal interpretive essay on the Lemons paper.*
9. Key Contributions:
  - *Introduced the concept of adverse selection, showing how markets degrade when sellers have more information than buyers (e.g., used-car markets).*
  - *Linked asymmetric information to a wide variety of market failures (credit markets, insurance, labor markets).*
  - *Integrated insights from psychology and sociology into economic theory.*



10. *Legacy / Impact on Economics:*

- *His work initiated and shaped information economics, which studies how information asymmetry affects markets.*
- *Influenced policy thinking on regulation, insurance, credit markets, and labor discrimination.*
- *Contributed to behavioral economics by showing that markets do not always function optimally when agents lack symmetric information.*

YEAR 2002 (A)



## DANIEL KAHNEMAN

1. Full Name: Daniel Kahneman
2. Date of Birth and Death : March 1934 - 27 March 2024
3. Nationality: Israeli / American
4. Year of Nobel Prize in Economics: 2002
5. Institution/University at the Time of Award: Princeton University (among affiliations)
6. Field of Contribution / Research Area: Behavioral economics; psychology of decision making; heuristics & biases; judgment under uncertainty
7. Citation: "For having integrated insights from psychological research into economic science, especially concerning human judgment and decision-making under uncertainty."
8. Major Works / Publications:
  - Prospect Theory: An Analysis of Decision under Risk (with Amos Tversky)
  - Papers on heuristics and biases, judgment under uncertainty
  - Thinking, Fast and Slow (later, summarizing much of his work) etc.
9. Key Contributions:
  - Showed that human decision making often departs from the "rational economic agent" model – biases, heuristics, loss aversion etc.
  - Developed new frameworks to understand risk and utility using psychological insights.
  - Provided experimental evidence that shaped behavioral economics and policy design.



10. *Legacy / Impact on Economics:*

- *Behavioral economics is now a major field; regulatory, financial, policy institutions increasingly incorporate psychological realism.*
- *Impact beyond economics: psychology, law, finance.*
- *Influenced how economists design experiments and measure utility, risk, choice.*

## YEAR 2002 (B)



## VERNON SMITH

1. *Full Name: Vernon Lomax Smith*
2. *Date of Birth and Death :1 January 1927 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2002*
5. *Institution/University at the Time of Award: George Mason University, Fairfax, VA, USA*
6. *Field of Contribution / Research Area: Experimental economics; use of laboratory experiments in studying market mechanisms and institutions*
7. *Citation: "For having established laboratory experiments as a tool in empirical economic analysis, especially in the study of alternative market mechanisms."*
8. *Major Works / Publications:*
  - *Experimental studies of auctions and alternative market institutions*
  - *Work to set standards for laboratory experiments in economics; pioneering empirical results.*
9. *Key Contributions:*
  - *Showing that experiments in controlled environments can yield reliable insights about economic behaviour and market institutions.*
  - *Demonstrated differences in outcomes under different auction designs, market rules, etc.*
  - *Proved that economic theory can be tested in laboratory settings and that behaviour often deviates from simple theoretical predictions.*



*10. Legacy / Impact on Economics:*


- *Firmly established the field of experimental economics.*
- *Influences economic policy, market design, auction theory.*
- *Has inspired many economists to use lab and field experiments; experimental method is now mainstream.*

YEAR 2003 (A)



## ROBERT ENGLE III

1. Full Name: Robert Fry Engle III
2. Date of Birth and Death: 10 November 1942 - living
3. Nationality: American
4. Year of Nobel Prize in Economics: 2003
5. Institution/University at the Time of Award: New York University, Stern School of Business (USA)
6. Field of Contribution / Research Area: Econometrics, Time Series Analysis, Financial Market Volatility
7. Citation: "For methods of analyzing economic time series with time-varying volatility (ARCH)" (shared with Clive W.J. Granger).
8. Major Works / Publications:
  - "Autoregressive Conditional Heteroskedasticity with Estimates of the Variance of U.K. Inflation" (1982)
  - ARCH: Selected Readings (1995)
  - Anticipating Correlations: A New Paradigm for Risk Management (2009)
  - Numerous research papers on volatility, risk management, and financial econometrics.
9. Key Contributions:
  - Developed the ARCH (Autoregressive Conditional Heteroskedasticity) model, a breakthrough for analyzing financial market volatility.
  - Provided tools to measure and forecast risks in financial markets.
  - Helped improve models for pricing risky assets, portfolio management, and risk assessment in banking/finance.

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- *Extended his work into practical risk management, including systemic risk in financial institutions.*

*10. Legacy / Impact on Economics:*



- *ARCH/GARCH models are standard tools in econometrics, widely used in financial markets, central banks, and risk management worldwide.*
- *His models transformed the way economists, investors, and policymakers understand and forecast volatility.*
- *Contributions remain central to financial econometrics, influencing risk regulation, monetary policy, and investment strategies.*
- *Considered one of the most influential figures in modern financial econometrics.*

## YEAR 2003 (B)



# CLIVE GRANGER

1. *Full Name: Clive William John Granger*
2. *Date of Birth and Death: 4 September 1934 – 27 May 2009*
3. *Nationality: British (later also became a U.S. citizen)*
4. *Year of Nobel Prize in Economics: 2003*
5. *Institution/University at the Time of Award: University of California, San Diego (USA)*
6. *Field of Contribution / Research Area: Econometrics, Time Series Analysis, Cointegration*
7. *Citation: "For methods of analyzing economic time series with common trends (cointegration)" (shared with Robert F. Engle).*
8. *Major Works / Publications:*
  - *"Investigating Causal Relations by Econometric Models and Cross-spectral Methods" (1969)*
  - *Forecasting in Business and Economics (1969)*
  - *"Cointegration and Error Correction: Representation, Estimation, and Testing" (1987, with Robert F. Engle)*
  - *Essays in Econometrics: Collected Papers of Clive W. J. Granger (2001)*
9. *Key Contributions:*
  - *Introduced the concept of Granger causality, a statistical method to test if one time series predicts another.*
  - *Co-developed the theory of cointegration, which helps analyze long-run equilibrium relationships between economic variables.*



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- *Greatly advanced forecasting techniques in econometrics.*
  - *His work reshaped the way economists understand dynamic relationships in macroeconomics and finance.*
10. *Legacy / Impact on Economics:*
- *“Granger causality” remains a fundamental tool in time series econometrics and is applied across economics, finance, and even neuroscience.*
  - *The concept of cointegration revolutionized empirical macroeconomics and finance, enabling better modeling of relationships like interest rates, consumption, and exchange rates.*
  - *His contributions continue to guide central banks, policymakers, and financial analysts in modeling economic data.*
  - *Widely regarded as one of the pioneers of modern time series econometrics*

## YEAR 2004 (A)



# FINN KYDLAND

1. Full Name: *Finn Erling Kydland*
2. Date of Birth and Death: *1 December 1943 –living*
3. Nationality: *Norwegian*
4. Year of Nobel Prize in Economics: *2004*
5. Institution/University at the Time of Award: *Carnegie Mellon University (USA) and University of California, Santa Barbara (USA)*
6. Field of Contribution / Research Area: *Macroeconomics, Time Consistency in Policy, Business Cycle Theory*
7. Citation: *“For their contributions to dynamic macroeconomics: the time consistency of economic policy and the driving forces behind business cycles” (shared with Edward C. Prescott).*
8. Major Works / Publications:
  - *“Rules Rather than Discretion: The Inconsistency of Optimal Plans” (1977, with Edward C. Prescott)*
  - *“Time to Build and Aggregate Fluctuations” (1982, with Edward C. Prescott)*
  - *Numerous papers on macroeconomic policy, real business cycles, and dynamic economics.*
9. Key Contributions:
  - *Developed the concept of time inconsistency in economic policy, showing why governments often fail to follow through on optimal long-term policies.*
  - *Advocated for rules-based policies (e.g., monetary policy rules) over discretionary policies to build credibility and reduce inflation.*

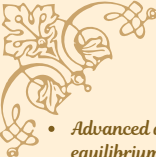

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- *Helped create the Real Business Cycle (RBC) theory, explaining economic fluctuations through changes in technology and productivity rather than just monetary shocks.*
  - *Provided influential models for modern macroeconomic research and policymaking.*
10. *Legacy / Impact on Economics:*
- *His work reshaped macroeconomic policy design, influencing central banks and governments worldwide.*
  - *The time consistency problem remains a core concept in monetary and fiscal policy discussions.*
  - *RBC theory became a foundation for modern dynamic stochastic general equilibrium (DSGE) models widely used by central banks and international institutions.*
  - *Recognized as one of the key architects of modern macroeconomics.*

## YEAR 2004 (B)



# EDWARD PRESCOTT

1. *Full Name: Edward Christian Prescott*
2. *Date of Birth and Death: 26 December 1940 – 6 November 2022*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2004*
5. *Institution/University at the Time of Award: Arizona State University (USA) and Federal Reserve Bank of Minneapolis (USA)*
6. *Field of Contribution / Research Area: Macroeconomics, Business Cycle Theory, Economic Policy*
7. *Citation: "For their contributions to dynamic macroeconomics: the time consistency of economic policy and the driving forces behind business cycles" (shared with Finn E. Kydland).*
8. *Major Works / Publications:*
  - *"Rules Rather than Discretion: The Inconsistency of Optimal Plans" (1977, with Finn E. Kydland)*
  - *"Time to Build and Aggregate Fluctuations" (1982, with Finn E. Kydland)*
  - *Numerous papers on growth theory, labor supply, and dynamic macroeconomics.*
9. *Key Contributions:*
  - *Co-developed the time inconsistency theory, demonstrating why governments often struggle to commit to long-term economic policies.*
  - *Co-founded Real Business Cycle (RBC) theory, which attributes business cycle fluctuations to real shocks such as technology changes rather than monetary shocks alone.*

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- *Advanced quantitative macroeconomic modeling, especially the use of general equilibrium models for policy analysis.*
  - *Influenced debates on labor supply, taxation, and economic growth.*

*10. Legacy / Impact on Economics:*

- *His work transformed modern macroeconomic theory and practice.*
- *RBC models became the foundation for today's Dynamic Stochastic General Equilibrium (DSGE) models, used by central banks and governments worldwide.*
- *His research shaped policy frameworks that emphasize credibility, transparency, and rule-based strategies in monetary and fiscal policy.*
- *Remembered as one of the most influential macroeconomists of the late 20th and early 21st century.*

YEAR 2005 (A)



## ROBERT AUMANN

1. Full Name: Robert John Aumann
2. Date of Birth and Death: June 8, 1930 - living
3. Nationality: Israeli-American
4. Year of Nobel Prize in Economics: 2005
5. Institution/University at the Time of Award: Hebrew University of Jerusalem, Israel; State University of New York at Stony Brook, USA
6. Field of Contribution / Research Area: Game Theory and Rationality
7. Citation: "For having enhanced our understanding of conflict and cooperation through game-theory analysis."
8. Major Works / Publications:
  - Values of Non-Atomic Games (1974) with L.S. Shapley
  - Lectures on Game Theory (1989)
  - "Correlated Equilibrium as an Expression of Bayesian Rationality" (1987)
9. Key Contributions:
  - Aumann's work focused on long-term cooperation in games. He showed that cooperation is a rational strategy in repeated games, even if players are self-interested. This is a crucial finding because it helps explain how institutions and norms can emerge to support cooperation.
  - He introduced the concept of correlated equilibrium, a more general and powerful solution concept than the Nash equilibrium. This concept allows for players to coordinate their actions based on a shared signal, which is more realistic in many real-world situations.



10. *Legacy / Impact on Economics:*

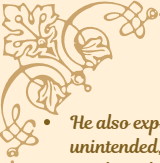

- *Aumann's work broadened the application of game theory beyond simple, one-shot interactions to complex, long-term relationships. This has had a profound impact on fields like industrial organization, international relations, and political science.*
- *His research has been instrumental in understanding phenomena such as arms races, price wars, and the formation of social contracts, by providing a framework to analyze strategic interactions among rational agents over time.*

YEAR 2005 (B)



## THOMAS SCHELLING

1. *Full Name: Thomas Crombie Schelling*
2. *Date of Birth and Death: 14 April 1921 – 13 December 2016*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2005*
5. *Institution/University at the Time of Award: University of Maryland, College Park, USA*
6. *Field of Contribution / Research Area: Game Theory and Strategic Analysis*
7. *Citation: "For having enhanced our understanding of conflict and cooperation through game-theory analysis."*
8. *Major Works / Publications:*
  - *The Strategy of Conflict (1960)*
  - *Arms and Influence (1966)*
  - *Micro motives and Macro behavior (1978)*
9. *Key Contributions:*
  - *Schelling's work, particularly in The Strategy of Conflict, revolutionized how we analyze strategic interactions and bargaining. He emphasized that conflict is not just a zero-sum game but often involves a mixture of conflicting and common interests.*
  - *He introduced concepts like commitment, threats, and credibility as key elements of strategic behavior. His analysis of threats, for example, showed that for a threat to be effective, it must be credible, which often means an actor must limit their own options to make it more believable.*

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- *He also explored how individual decisions, or "micromotives," can lead to unintended, large-scale social outcomes, or "macrobehavior," such as residential segregation.*

*10. Legacy / Impact on Economics:*

- *Schelling's work profoundly influenced fields beyond economics, including political science, international relations, and military strategy. His insights on bargaining and deterrence were particularly important during the Cold War.*
- *He showed how simple models could be used to understand complex human behavior, making his work highly accessible and influential. The book *The Strategy of Conflict* is considered a foundational text for the study of strategy and negotiation.*





YEAR 2006



## EDMUND PHELPS

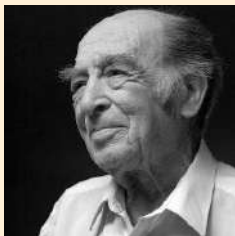
1. *Full Name: Edmund Strother Phelps*
2. *Date of Birth and Death: 26 July 1933 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2006*
5. *Institution/University at the Time of Award: Columbia University, USA*
6. *Field of Contribution / Research Area: Macroeconomics and Micro-foundations*
7. *Citation: "For his analysis of intertemporal tradeoffs in macroeconomic policy."*
8. *Major Works / Publications:*
  - *Golden Rules of Economic Growth (1966)*
  - *"Money-Wage Dynamics and the Labor Market Equilibrium" (1968)*
  - *Inflation, Economic Welfare, and the Global Free Lunch (1973)*
9. *Key Contributions:*
  - *Phelps's key contribution was in challenging the traditional Phillips curve, which suggested a stable long-run trade-off between inflation and unemployment. He argued that this trade-off was only temporary.*
  - *He introduced the concept of the "natural rate of unemployment" (also known as the non-accelerating inflation rate of unemployment, or NAIRU). He showed that in the long run, expansionary monetary policy would only lead to higher inflation, not lower unemployment, because people's inflation expectations would adjust.*

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- He also pioneered the use of micro-foundations in macroeconomics, which involves building macroeconomic models based on the optimizing behavior of individuals and firms.

*10. Legacy / Impact on Economics:*

- Phelps's work was a cornerstone of the new classical and new Keynesian schools of macroeconomics. His analysis fundamentally changed the way economists and policymakers think about monetary policy.
- His research provides the theoretical basis for why central banks today are primarily focused on controlling inflation rather than attempting to "buy" lower unemployment with higher inflation. It has had a lasting impact on how monetary policy is conducted around the world.

## YEAR 2007 (A)



# LEONID HURWICZ

1. *Full Name: Leonid Hurwicz*
2. *Date of Birth- Date of Death: 21 August 1917- 24 June 2008*
3. *Nationality: Polish-American*
4. *Year of Nobel Prize: 2007*
5. *Institution/University at the time of the award: University of Minnesota, Minneapolis, Minnesota, USA*
6. *Field of contribution/research area: Mechanism Design Theory*
7. *Citation: "For having laid the foundations of mechanism design theory"*
8. *Major works/publications:*
  - *"On Informationally Decentralized Systems" (1972)*
  - *"The Design of Mechanisms for Resource Allocation" (1973)*
9. *Key contributions:*
  - *Developed the concept of incentive compatibility*
  - *laid the foundation for mechanism design theory*
10. *Legacy/impact on economics:*
  - *Hurwicz's work on mechanism design theory has had a profound impact on our understanding of economic systems and institutions.*
  - *His research has influenced the design of auctions, voting systems, and other economic mechanisms.*

## YEAR 2007 (B)



### ERIC MASKIN

1. *Full Name: Eric Stark Maskin*
2. *Date of Birth and Death: 12 December 1950 - living*
3. *Nationality: American*
4. *Year of Nobel Prize: 2007*
5. *Institution/University at the time of the award: Institute for Advanced Study, Princeton*
6. *Field of contribution/research area: Mechanism Design Theory, Implementation Theory*
7. *Citation: "For having laid the foundations of mechanism design theory"*
8. *Major works/publications:*
  - *"Nash Equilibrium and Welfare Optimality" (1999)*
  - *"Mechanism Design: How to Implement Social Goals" (2008, with Roger Myerson)*
9. *Key contributions:*
  - *Developed the theory of implementation*
  - *made significant contributions to mechanism design theory*
10. *Legacy/impact on economics:*
  - *Maskin's work on mechanism design theory and implementation theory has had a significant impact on our understanding of economic systems and institutions.*
  - *His research has influenced the design of auctions, contracts, and other economic mechanisms.*

YEAR 2007 (C)



## ROGER MYERSON

1. *Full Name: Roger Bruce Myerson*
2. *Date of Birth and Death : 29 March 1951 - living*
3. *Nationality: American*
4. *Year of Nobel Prize: 2007*
5. *Institution/University at the time of the award: University of Chicago, Chicago, Illinois, USA*
6. *Field of contribution/research area: Mechanism Design Theory, Game Theory*
7. *Citation: "For having laid the foundations of mechanism design theory"*
8. *Major works/publications:*
  - *"Optimal Auction Design" (1981)*
  - *"Game Theory: Analysis of Conflict" (1991)*
9. *Key contributions:*
  - *Developed the theory of optimal auction design*
  - *made significant contributions to mechanism design theory*
10. *Legacy/impact on economics:*
  - *Myerson's work on mechanism design theory and game theory has had a profound impact on our understanding of economic systems and institutions.*
  - *His research has influenced the design of auctions, contracts, and other economic mechanisms.*

YEAR 2008



## PAUL KRUGMAN



1. *Full Name: Paul Krugman*
2. *Date of Birth and Death: 28 February 1953 - living*
3. *Nationality: American*
4. *Year of Nobel Prize: 2008*
5. *Institution/University at the time of the award: Princeton University, New Jersey, USA*
6. *Field of contribution/research area: International Trade and Economic Geography*
7. *Citation: "For his analysis of trade patterns and location of economic activity"*
8. *Major works/publications:*
  - *"Increasing Returns, Monopolistic Competition, and International Trade" (1979)*
  - *"Scale Economies, Product Differentiation, and the Pattern of Trade" (1980)*
9. *Key contributions: Formulated a new theory of trade that integrates international trade and economic geography, explaining trade patterns and the location of economic activity based on economies of scale.*
10. *Legacy/impact on economics: Krugman's work has deepened our understanding of globalization, urbanization, and international trade, influencing research and policy-making in these areas.*

YEAR 2009 (A)



## ELINOR OSTROM

1. *Full Name: Elinor Claire Ostrom*
2. *Date of Birth and Death: 7 August 1933 - 12 June 2012*
3. *Nationality: American*
4. *Year of Nobel Prize: 2009*
5. *Institution/University at the time of the award: Indiana University, Bloomington – Workshop in Political Theory and Policy Analysis*
6. *Field of contribution/research area: Political economy, institutional analysis, common-pool resource (CPR) governance, collective action*
7. *Citation: “For her analysis of economic governance, especially the commons” (The Royal Swedish Academy of Sciences, 2009).*
8. *Major works/publications:*
  - *Governing the Commons: The Evolution of Institutions for Collective Action (1990), Understanding Institutional Diversity (2005)*
  - *Rules, Games, and Common-Pool Resources (with Roy Gardner & James Walker, 1994)*
  - *Working Together: Collective Action, the Commons, and Multiple Methods in Practice (with Amy Poteete & Marco Janssen, 2010)*
9. *Key contributions:*
  - *Elinor Ostrom’s pioneering research challenged the long-standing idea of the “tragedy of the commons,” which suggested that individuals inevitably overexploit shared resources unless controlled by government or privatization.*

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- *Through extensive fieldwork across different regions of the world, she demonstrated that communities can successfully self-organize and manage common resources sustainably.*
  - *She developed the Institutional Analysis and Development (IAD) framework, which outlined how rules, norms, and strategies shape collective action.*
  - *Her work proved that trust, communication, and adaptive governance structures can prevent resource depletion without centralized authority.*

*10. Legacy/impact on economics:*



- *Elinor Ostrom's pioneering research challenged the long-standing idea of the "tragedy of the commons," which suggested that individuals inevitably overexploit shared resources unless controlled by government or privatization.*
- *Through extensive fieldwork across different regions of the world, she demonstrated that communities can successfully self-organize and manage common resources sustainably.*
- *She developed the Institutional Analysis and Development (IAD) framework, which outlined how rules, norms, and strategies shape collective action.*
- *Her work proved that trust, communication, and adaptive governance structures can prevent resource depletion without centralized authority.*

YEAR 2009 (B)



## OLIVER WILLIAMSON

1. *Full Name: Oliver Eaton Williamson*
2. *Date of Birth and Death: 27 September 1932 - 21 May 2020*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2009*
5. *Institution/University at the time of the award: University of California, Berkeley, USA*
6. *Field of contribution/research area: Institutional economics, governance structures, transaction cost economics, organizational theory*
7. *Citation: "For his analysis of economic governance, especially the boundaries of the firm" (The Royal Swedish Academy of Sciences, 2009).*
8. *Major Works/Publications:*
  - *Markets and Hierarchies: Analysis and Antitrust Implications (1975)*
  - *The Economic Institutions of Capitalism: Firms, Markets, Relational Contracting (1985)*
  - *The Mechanisms of Governance (1996)*
  - *Transaction Cost Economics and Organization Theory (1999, in Industrial and Corporate Change)*
9. *Key Contributions:*
  - *Oliver E. Williamson is best known for developing transaction cost economics (TCE), a framework that analyzes why firms exist and how they are structured.*

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- He argued that the boundaries between markets and firms are shaped by the costs of conducting transactions – such as bargaining, monitoring, and enforcing contracts. His work explained why certain activities are more efficiently coordinated within firms (hierarchies), while others are better suited to market exchanges.
  - Williamson introduced the concepts of opportunism, bounded rationality, and asset specificity, showing how these factors affect governance choices.
  - His theories reshaped antitrust policy, corporate strategy, and contract design by emphasizing governance as a crucial element of economic efficiency.
10. Legacy/Impact on Economics:
- Williamson's ideas laid the foundation for the modern study of organizations, contracts, and institutions in economics.
  - By highlighting the importance of governance structures, he bridged law, economics, and management.
  - His work significantly influenced industrial organization, corporate law, and public policy, especially in antitrust and regulation.
  - Alongside Elinor Ostrom, his Nobel Prize recognition in 2009 emphasized the importance of governance in solving economic problems, whether at the level of firms or communities.

## YEAR 2010 (A)



# PETER DIAMOND

1. Full name: Peter Arthur Diamond
2. Date of Birth and Death: 29 April 1940 - 9 January 2014
3. Nationality: American
4. Year of Nobel Prize in Economics: 2010
5. Institution/University at the time of award: Massachusetts Institute of Technology (MIT) in Cambridge
6. Field of contribution/ research area: search and matching theory for labor markets
7. Citation: "For his analysis of markets with search frictions"
8. Major works/Publication:
  - Search and matching theory, Diamond Paradox (1971)
  - Optimal taxation and public policy, Social security and pension reform.
9. Key Contributions:
  - Diamond is renowned for developing models explaining why unemployment and job vacancies can coexist.
  - Diamond demonstrated that search frictions could force even competitive markets to set monopoly price a counter intuitive result.
  - Diamond contributed to the theory of optimal taxation, focusing on how tax systems can be structured to maximize welfare without inefficient distortions in production and consumption.
10. Legacy/Impact on Economics: Peter diamond's legacy in economics rests on his transformative impact on both theoretical framework and real-world policy, especially in labour markets, public finance and pension design.

## YEAR 2010 (B)



# DALE MORTENSEN

1. Full name: Dale Thomas Mortensen
2. Date of birth and Death: February 1939 - 9 January 2014
3. Nationality: American
4. Year of Nobel Prize in Economics: 2010
5. Institution/university at the time of award: Northwestern University, Evanston, Illinois, USA
6. Field of contribution/research area: labor economics, focusing specifically on search and matching theory in the labor market
7. Citation: "For their analysis of markets with search frictions"
8. Major works/Publication:
  - Job search, the duration of unemployment, and the Phillips curve (1970)
  - Why are similar workers paid differently?
9. Key contributions:
  - Pioneering the search and matching theory in labor economics, which explains labor market friction such as the time and costs involved in matching workers with jobs.
  - Providing policy-relevant analysis on how various labor market rigidities and unemployment benefits affect job search duration and unemployment levels.



*10.legacy/Impact on Economics:*



- *He fundamentally transformed labor economics through his pioneering development of search and matching theory, which revolutionized how economists understand the labor market with friction.*
- *He influenced economic policy worldwide, guiding reforms related to unemployment insurance.*

YEAR 2010 (C)



## CHRISTOPHER PISSARIDES

1. *Full Name: Christopher Antoniou Pissarides*
2. *Date of Birth and Death: 20 February 1948 -living*
3. *Nationality: Cypriot-British.*
4. *Year of Nobel Prize in Economics: 2010*
5. *Institution/University at the Time of Award: London School of Economics and Political Science (LSE).*
6. *Field of Contribution / Research Area: Labour economics and macroeconomics – particularly the analysis of markets with search frictions, unemployment dynamics, and labor market policies.*
7. *Citation: “for their analysis of markets with search frictions.”*
8. *Major Works / Publications:*
  - *Equilibrium Unemployment Theory (book, 1990; 2nd ed. 2000).*
  - *Job Creation and Job Destruction in the Theory of Unemployment (with D. Mortensen, Review of Economic Studies, 1994).*
  - *Taxes, Subsidies and Equilibrium Labor Market Outcomes (with D. Mortensen, 1999).*
  - *Numerous influential articles applying search and matching models to labor markets and policy design.*
9. *Key Contributions*
  - *Co-developed the Mortensen-Pissarides matching model, which formalized how unemployment, job vacancies, and job creation/destruction interact in labor markets with frictions.*

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- Explained how factors like unemployment benefits, hiring costs, and policy design affect equilibrium unemployment.
  - Provided analytical tools widely adopted in macro-labor economics and policy analysis (e.g., Beveridge curve, matching function).

#### 10. Legacy / Impact on Economics

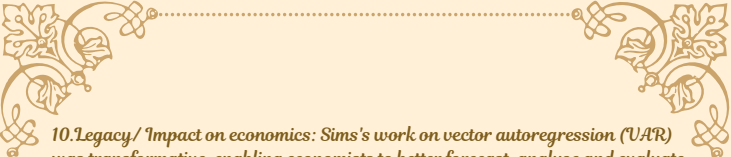
- The Diamond–Mortensen–Pissarides (DMP) model became the standard framework for modern labor market analysis.
- Influenced both academic research and policymaking on unemployment, job search, and labor regulation.
- His framework is applied in central banks and international organizations (e.g., OECD, IMF) for analyzing unemployment persistence and evaluating labor market policies.
- More recently, Pissarides has extended his interest to the future of work, automation, and the implications of AI for labor markets

YEAR 2011 (A)



## CHRISTOPHER SIMS

1. Name: *Christopher Albert Sims*
2. Date of Birth and Death: *21 October 1942 - living*
- 3 Nationality: *American*
- 4 Year of Nobel Prize in Economics: *2011*
5. Institution /University at the time of award: *Princeton University, New Jersey, USA*
6. Field of contribution/ research area: *Econometrics and Macroeconomic theory, and policy*
- 7 Citation: *"For their empirical research on cause and effect in the macro economy" (Alongside Thomas J. Sargent)*
8. Major works/ Publication:
  - *"Macroeconomics and reality" (1980)*
  - *money, income, and causality (1986), contribution to the fiscal theory of the price level*
  - *significant work on the theory of rational inattention*
9. Key contributions:
  - *Introducing and pioneering the use of vector autoregression in empirical macroeconomics, which transformed how macroeconomic data is analyzed and policy impacts are evaluated.*
  - *Challenging the assumptions used in traditional large scale macro econometric models and providing a framework less reliant on restrictive identification assumptions.*





*10. Legacy/ Impact on economics: Sims's work on vector autoregression (VAR) was transformative, enabling economists to better forecast, analyze and evaluate policy effects and economic fluctuations and it remains a cornerstone of modern macroeconomic research and policy analysis.*

YEAR 2011 (B)



## THOMAS SARGENT

1. Full Name: *Thomas John Sargent*
2. Date of Birth and Death: *19 July 1943 - living*
3. Nationality: *American*
4. Year of Nobel Prize in Economics: *2011*
5. Institution/University at the Time of Award: *New York University (NYU), New York, USA*
6. Field of Contribution / Research Area: *Macroeconomics, rational expectations theory, monetary economics, fiscal policy, time series econometrics.*
7. Citation: *"For their empirical research on cause and effect in the macroeconomy."*  
(Awarded jointly with Christopher A. Sims)
8. Major Works / Publications:
  - *Rational Expectations and Econometric Practice (with R. Lucas Jr., 1981).*
  - *Dynamic Macroeconomic Theory (1987).*
  - *Recursive Macroeconomic Theory (with L. Ljungqvist, multiple editions, 2000/2004/2012).*
  - *Key journal articles on rational expectations, policy evaluation, and time series methods.*
9. Key Contributions:
  - *Pioneer in the development of rational expectations macroeconomics, showing how expectations about the future affect current economic behavior.*
  - *Demonstrated how changes in monetary and fiscal policy can lose effectiveness when agents anticipate them.*

- 
- 
- *Developed empirical and theoretical tools for analyzing cause-and-effect in macroeconomics, including vector autoregressions (VARs, alongside Sims) and recursive methods.*
  - *His work challenged the traditional Keynesian view by stressing policy credibility and expectations.*
- 10. Legacy / Impact on Economics:*
- *Helped establish rational expectations as a cornerstone of modern macroeconomic theory.*
  - *Influenced central banking and fiscal authorities on the importance of policy credibility, rules, and expectations management.*
  - *His recursive macroeconomic models remain standard tools in academic teaching and applied policy research.*
  - *Alongside Sims, provided a framework for more rigorous empirical testing of macroeconomic theories, bridging theory and data in ways still central today.*

YEAR 2012 (A)



## LLOYD SHAPLEY

1. *Full Name: Lloyd Stowell Shapley*
2. *Date of Birth and Death: 2 June 1923 – 12 March 2016*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2012*
5. *Institution/University at the Time of Award: University of California, Los Angeles (UCLA), USA*
6. *Field of Contribution / Research Area: Game Theory and Matching Theory*
7. *Citation: "For the theory of stable allocations and the practice of market design."*
8. *Major Works / Publications:*
  - *Gale–Shapley Algorithm (1962, with David Gale)*
  - *"College Admissions and the Stability of Marriage"*
  - *"The Shapley Value"*
9. *Key Contributions:*
  - *Developed the Gale–Shapley algorithm to explain how stable matches can be made between groups (e.g., students and schools, men and women in marriage models).*
  - *Introduced the concept of the Shapley Value in cooperative game theory, a method for fairly distributing gains among participants.*
  - *His theories became the foundation for later practical applications in market design.*



*10. Legacy / Impact on Economics:*

- *His mathematical models are still used in markets where money is not the main medium of exchange.*
- *Inspired applications in school choice systems, labor markets, and organ donation exchanges.*
- *Considered one of the most influential game theorists of the 20th century.*

YEAR 2012 (B)



## ALVIN ROTH

1. *Full Name: Alvin Elliot Roth*
2. *Date of Birth and Death: 18 December 1951 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2012*
5. *Institution/University at the Time of Award: Harvard University, Cambridge, MA, USA; Harvard Business School, Boston, MA, USA*
6. *Field of Contribution / Research Area: Market Design and Applied Game Theory*
7. *Citation: "For the theory of stable allocations and the practice of market design."*
8. *Major Works / Publications:*
  - *Applications of the Gale-Shapley Algorithm in school choice and kidney exchange*
  - *"The College Admissions Problem Revisited"*
  - *Who Gets What – and Why (2015, book)*
9. *Key Contributions:*
  - *Applied Shapley's mathematical theories to real-world problems.*
  - *Designed practical systems for school choice programs in New York, Boston, and other U.S. cities.*
  - *Developed matching systems for kidney exchange, helping save thousands of lives.*
  - *Showed how economic theory can directly improve human welfare.*



*10. Legacy / Impact on Economics:*

- *Revolutionized market design as a new area in economics.*
- *His work connects theory with practice, showing how algorithms can solve allocation problems.*
- *Widely respected as a bridge between abstract economic theory and practical policy*

## YEAR 2013 (A)



# EUGENE FAMA

1. *Full Name: Eugene Francis Fama*
2. *Date of Birth and Death: 14 February 1939 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2013*
5. *Institution/University at the Time of Award: University of Chicago, USA*
6. *Field of Contribution / Research Area: Financial Economics / Asset Pricing*
7. *Citation: "For their empirical analysis of asset prices."*
8. *Major Works / Publications:*
  - *Efficient Market Hypothesis (1970)*
  - *"Efficient Capital Markets: A Review of Theory and Empirical Work"*
  - *Research on portfolio theory and risk-return models*
9. *Key Contributions:*
  - *Father of the Efficient Market Hypothesis (EMH), which argues that stock prices fully reflect all available information.*
  - *Showed that investors cannot consistently beat the market using available information.*
  - *His work became the foundation for index funds and passive investing strategies.*
10. *Legacy / Impact on Economics:*
  - *EMH influenced how mutual funds and investment strategies are designed.*
  - *Inspired the rise of low-cost index funds worldwide.*
  - *Considered one of the most influential financial economists of all time.*

## YEAR 2013 (B)



# LARS HANSEN

1. *Full Name: Lars Peter Hansen*
2. *Date of Birth and Death: 26 October 1952 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2013*
5. *Institution/University at the Time of Award: University of Chicago, USA*
6. *Field of Contribution / Research Area: Econometrics / Asset Pricing*
7. *Citation: "For their empirical analysis of asset prices."*
8. *Major Works / Publications:*
  - *Generalized Method of Moments (GMM, 1982)*
  - *Research on risk and uncertainty in financial markets*
9. *Key Contributions:*
  - *Developed GMM (Generalized Method of Moments), a statistical method to test economic theories.*
  - *Provided tools for understanding risk in asset pricing models.*
  - *Helped economists test and refine financial models more accurately.*
10. *Legacy / Impact on Economics:*
  - *GMM became a standard tool in modern econometrics.*
  - *His methods are used widely in academic research and policy-making.*
  - *Considered one of the leading figures in econometric theory.*

YEAR 2013 (C)



## ROBERT SHILLER

1. *Full Name: Robert James Shiller*
2. *Date of Birth and Death: 29 March 1946 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2013*
5. *Institution/University at the Time of Award: Yale University, USA*
6. *Field of Contribution / Research Area: Behavioral Economics / Asset Prices*
7. *Citation: "For their empirical analysis of asset prices."*
8. *Major Works / Publications:*
  - *Irrational Exuberance (2000, 2005, 2015 editions)*
  - *Case-Shiller Home Price Index*
  - *Research on speculative bubbles in housing and stock markets*
9. *Key Contributions:*
  - *Showed that markets are not always efficient; investor psychology often drives bubbles and crashes.*
  - *Predicted both the dot-com bubble and the U.S. housing bubble.*
  - *A pioneer in behavioral finance, combining psychology with economics.*
10. *Legacy / Impact on Economics:*
  - *His work influenced financial regulation and housing market analysis.*
  - *Case-Shiller Index is widely used to measure housing prices.*
  - *Encouraged economists to integrate psychology into financial models.*

YEAR 2014



## JEAN TIROLE

1. *Full Name: Jean Tirole*
2. *Date of Birth and Death: 9 August 1953 - living*
3. *Nationality: French*
4. *Year of Nobel Prize in Economics: 2014*
5. *Institution/University at the Time of Award: Toulouse School of Economics, France*
6. *Field of Contribution / Research Area: Industrial Organization, Market Power, and Regulation*
7. *Citation: "For his analysis of market power and regulation."*
8. *Major Works / Publications:*
  - *The Theory of Industrial Organization (1988)*
  - *The Theory of Corporate Finance (2006)*
  - *Economics for the Common Good (2017)*
9. *Key Contributions:*
  - *Developed theoretical models to understand how large firms with market power operate.*
  - *Demonstrated how regulation should be adapted to specific industries.*
  - *Addressed problems such as cartels, monopoly power, and government regulation.*



*10. Legacy / Impact on Economics:*

- *Shaped modern competition and regulatory policies in telecoms, banking, and energy.*
- *Influenced antitrust practices and policy frameworks across the globe.*
- *Recognized as one of the leading theorists in industrial organization.*

YEAR 2015



## ANGUS DEATON

1. *Full Name: Angus Stewart Deaton*
  2. *Date of Birth and Death: 19 October 1945 - living*
  3. *Nationality: British-American*
  4. *Year of Nobel Prize in Economics: 2015*
  5. *Institution/University at the Time of Award: Princeton University, USA*
  6. *Field of Contribution / Research Area: Consumption, Poverty, and Welfare Economics*
  7. *Citation: "For his analysis of consumption, poverty, and welfare."*
  8. *Major Works / Publications:*
    - *Almost Ideal Demand System (with John Muellbauer, 1980)*
    - *The Analysis of Household Surveys (1997)*
    - *The Great Escape: Health, Wealth, and the Origins of Inequality (2013)*
  9. *Key Contributions:*
    - *Developed models to analyze consumption behavior and demand.*
    - *Used household surveys to measure poverty and inequality in developing countries.*
    - *Bridged microeconomic behavior with macroeconomic policy implications.*
  10. *Legacy / Impact on Economics:*
    - *Influenced global poverty measurement and welfare studies.*
    - *Provided tools widely used by the World Bank and UN in development programs.*
- His work continues to guide research on inequality, health, and living standards.*

YEAR 2016 (A)



## BENGT HOLMSTRÖM

1. Full Name: *Bengt Robert Holmström*

2. Date of Birth and Death: *18 April 1949 - living*

3. Nationality: *Finnish*

4. Year of Nobel Prize in Economics: *2016*

5. Institution/University at the Time of Award: *Massachusetts Institute of Technology (MIT), Cambridge, MA, USA*

6. Field of Contribution / Research Area: *Contract theory, incentive theory, corporate governance, organizational economics*

7. Citation: *"For their contributions to contract theory" (The Royal Swedish Academy of Sciences, 2016). Award shared with Oliver Hart*

8. Major Works / Publications:

- *Holmström, B. (1979). Moral hazard and observability. The Bell Journal of Economics, 10(1), 74–91.*
- *Holmström, B., & Milgrom, P. (1991). Multitask principal-agent analyses: Incentive contracts, asset ownership, and job design. Journal of Law, Economics, & Organization, 7(Special Issue), 24–52.*
- *Holmström, B., & Tirole, J. (1997). Financial intermediation, loanable funds, and the real sector. Quarterly Journal of Economics, 112(3), 663–691.*
- *Holmström, B. (1999). Managerial incentive problems: A dynamic perspective. Review of Economic Studies, 66(1), 169–182.*



### 9. Key Contributions:

- *Bengt Holmström is widely recognized for his pioneering work on principal-agent problems and incentive theory.*
- *His research analyzed how contracts can align the interests of individuals (agents) with those of organizations or principals, despite problems of moral hazard and information asymmetry.*
- *Holmström's "informativeness principle" established that performance measures should be linked to observable outcomes that best reflect an agent's effort.*
- *He also explored multitasking in organizations, showing how incentive contracts must balance different tasks to avoid distortions in behavior.*
- *His later work, often with Jean Tirole, applied contract theory to corporate finance, analyzing the role of financial intermediaries and liquidity in shaping firm behavior.*

### 10. Legacy / Impact on Economics:

- *Holmström's contributions have deeply influenced corporate governance, managerial compensation, and financial contracting.*
- *His theories guide the design of executive pay, bonus systems, and incentive structures in both private firms and public organizations.*
- *By providing a rigorous framework to deal with moral hazard and incomplete information, Holmström's research has become central to modern contract theory and applied economics.*
- *Alongside Oliver Hart, his Nobel Prize highlighted the importance of understanding contracts and incentives in shaping economic institutions.*

## YEAR 2016 (B)



### OLIVER HART

1. *Full Name: Oliver Simon D'Arcy Hart*
2. *Date of Birth and Death: 9 October 1948 - living*
3. *Nationality: British-American*
4. *Year of Nobel Prize in Economics: 2016*
5. *Institution/University at the Time of Award: Harvard University, Cambridge, MA, USA*
6. *Field of Contribution / Research Area: Contract theory, incomplete contracts, corporate governance, law and economics*
7. *Citation: "For their contributions to contract theory" (The Royal Swedish Academy of Sciences, 2016). Award shared with Bengt Holmström.*
8. *Major Works / Publications:*
  - *Hart, O., & Holmström, B. (1986). The theory of contracts. In Advances in economic theory (Vol. 1, pp. 71–155). Cambridge University Press.*
  - *Hart, O., & Moore, J. (1990). Property rights and the nature of the firm. Journal of Political Economy, 98(6), 1119–1158.*
  - *Hart, O. (1995). Firms, contracts, and financial structure. Oxford University Press.*
  - *Hart, O., Shleifer, A., & Vishny, R. (1997). The proper scope of government: Theory and an application to prisons. Quarterly Journal of Economics, 112(4), 1127–1161.*



**9. Key Contributions:**

- *Oliver Hart is best known for developing the theory of incomplete contracts, which analyzes situations where not all future contingencies can be specified in a contract.*
- *His research, often in collaboration with John Moore, showed how ownership and control rights become crucial in determining incentives and efficiency when contracts cannot cover every possibility.*
- *Hart's work has shaped our understanding of corporate governance, public versus private ownership, and the allocation of control in mergers, acquisitions, and privatization.*
- *By providing a rigorous framework to study how contracts allocate decision-making power, his theories bridge economics, law, and organizational design.*

**10. Legacy / Impact on Economics:**

- *Hart's contributions have profoundly influenced both economic theory and real-world policy.*
- *His ideas inform debates on corporate governance, public-private partnerships, and institutional design.*
- *The recognition of contract theory with the 2016 Nobel Prize highlighted its relevance to issues ranging from business organization to government regulation.*
- *Hart's work continues to guide legal reforms, privatization debates, and the design of financial structures, ensuring long-term impact across multiple disciplines.*

YEAR 2017



## RICHARD THALER

1. *Full Name: Richard H. Thaler*
2. *Date of Birth and Death: 12 September 1945 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2017*
5. *Institution/University at the Time of Award: University of Chicago, Chicago, IL, USA*
6. *Field of Contribution / Research Area: Behavioral Economics (decision-making, psychology + economics)*
7. *Citation: "For having incorporated psychologically realistic assumptions into analyses of economic decision-making. By exploring the consequences of limited rationality, social preferences and lack of self-control, he has shown how these human traits systematically affect individual decisions as well as market outcomes."*
8. *Major Works / Publications:*
  - *Among the works referenced by the Nobel Committee are his "Anomalies" series, and articles/books on mental accounting, bounded rationality, self-control issues.*
  - *The book "Misbehaving: The Making of Behavioral Economics" is often considered a major popular work (though not necessarily all referenced in the Nobel prize text)*



9. Key Contributions:

- He documented and formalized systematic deviations from the standard “rational actor” model: e.g. bounded rationality, limited self-control, and social preferences.
- Developed theories/concepts such as mental accounting, the endowment effect, nudges (how small design changes in choice environments can influence behavior).
- Bridged psychology and economics in experimental and empirical work to show real human behavior and its effects on markets and policy.

10. Legacy / Impact on Economics:

- Behavioral economics has become mainstream; policies and institutions around the world have used “nudges” (policy designs) to improve decision-making (e.g. in saving, health, environmental policy).
- Provided tools that allow economists to predict and analyze phenomena where classical assumptions (perfect rationality, full self-control) fail.
- Changed how economics is taught, expanding standard models to incorporate human psychological behavior.

YEAR 2018 (A)



## PAUL ROMER

1. *Full Name: Paul Michael Romer*
2. *Date of Birth and Death : 6 November 1955 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2018*
5. *Institution/University at the Time of Award: New York University Stern School of Business, New York, USA*
6. *Field of Contribution / Research Area: Growth economics; technological innovation; endogenous growth theory.*
7. *Citation: "For integrating technological innovations into long-run macroeconomic analysis"*
8. *Major Works / Publications:*
  - *The work (1990) that laid the foundation of endogenous growth theory (i.e. modeling how ideas/knowledge creation depend on economic incentives and conditions)*
  - *Other papers where he formalized models of technological change and nonrivalry of ideas.*
9. *Key Contributions:*
  - *Showing that technological innovation is not just an external force but is itself influenced by market incentives, institutions, and policies.*
  - *Introducing models in which ideas/knowledge are nonrival goods, enabling growth without diminishing returns that typical capital goods/models face.*

- 
- 
- Influenced how economists think about R&D, spillovers, institutions for innovation, and policy to promote sustainable growth.
10. Legacy / Impact on Economics:
- Endogenous growth theory is a standard part of macroeconomics curricula and research.
  - Influenced policy debates on fostering innovation (university funding, intellectual property, incentives for research) and on climate-growth interactions.
  - His work has pushed forward understanding how knowledge economy works; how to sustain growth through innovation, not just accumulation of physical capital.

## YEAR 2018 (B)



# WILLIAM NORDHAUS

1. Full Name: *William Dawbney Nordhaus*
2. Date of Birth and Death: *31 May 1941 - living*
3. Nationality: *American*
4. Year of Nobel Prize in Economics: *2018*
5. Institution/University at the Time of Award: *Yale University, New Haven, USA*
6. Field of Contribution / Research Area: *Climate change and long-run macroeconomic analysis; integrated assessment modelling; environmental economics.*
7. Citation: *"For integrating climate change into long-run macroeconomic analysis"*
8. Major Works / Publications:
  - *Development of the DICE model (Dynamic Integrated Climate-Economy) among other models integrating economy and climate change.*
  - *Various papers and book(s) on economics of climate change, growth, etc. (The Nobel popular text mentions his work from the 1970s onward)*
9. Key Contributions:
  - *He was one of the first to quantitatively model how economic growth and climate systems interact, including damages, externalities, and policy instruments.*
  - *His work helps in evaluating costs and benefits of climate policies, such as carbon taxes, and understanding long-term welfare implications of climate change.*



*10. Legacy / Impact on Economics:*


- The integration of environmental/climate variables into macroeconomic models has become a standard and crucial field.*
- Influenced international policy debates on climate change, carbon pricing, sustainability.*
- Provided tools for policymakers to quantify trade-offs between economic growth and environmental protection over long horizons.*

YEAR 2019 (A)



## ABHIJIT BANERJEE

1. Full Name: *Abhijit Vinayak Banerjee*
2. Date of Birth and Death: *21 February 1961 - living*
3. Nationality: *Indian-American*
4. Year of Nobel Prize in Economics: *2019*
5. Institution/University at the Time of Award: *Massachusetts Institute of Technology (MIT), USA*
6. Field of Contribution / Research Area: *Development Economics, Poverty Alleviation, Experimental Economics*
7. Citation: *"For their experimental approach to alleviating global poverty."*
8. Major Works / Publications:
  - *Poor Economics: A Radical Rethinking of the Way to Fight Global Poverty (2011, with Esther Duflo)*
  - *Numerous influential academic papers on education, health, and microfinance*
9. Key Contributions:
  - *Pioneered the use of Randomized Controlled Trials (RCTs) to evaluate anti-poverty policies.*
  - *Showed how small, targeted interventions (like free textbooks, school meals, or microloans) can have measurable effects.*
  - *Combined fieldwork with theory to create practical solutions for real-world problems.*



*10. Legacy / Impact on Economics:*

- *Helped establish development economics as an evidence-based field.*
- *His research shaped global policies on education, health, and poverty reduction.*
- *Inspired governments and NGOs to adopt experimental methods in policymaking.*

## YEAR 2019 (B)



# ESTHER DUFLO

1. Full Name: Esther Duflo
2. Date of Birth and Death: 25 October 1972 -living
3. Nationality: French-American
4. Year of Nobel Prize in Economics: 2019
5. Institution/University at the Time of Award: Massachusetts Institute of Technology (MIT), USA
6. Field of Contribution / Research Area: Development Economics, Poverty, Gender, Education, Experimental Economics
7. Citation: "For their experimental approach to alleviating global poverty."
8. Major Works / Publications:
  - Poor Economics (2011, with Abhijit Banerjee)
  - Numerous papers on microfinance, women's empowerment, and social policy
  - Co-founder of the Abdul Latif Jameel Poverty Action Lab (J-PAL)
9. Key Contributions:
  - Applied RCTs to study issues such as healthcare, education, and gender inequality.
  - Advocated for evidence-based policymaking through J-PAL.
  - Broke barriers in economics as the youngest Nobel laureate in economics and second woman in economics and second woman ever to win the prize.



*10. Legacy / Impact on Economics:*

- *Inspired young economists, especially women, to enter the field.*
- *Changed the way policymakers evaluate the effectiveness of social programs.*
- *Played a major role in shifting global focus toward targeted, tested interventions for poverty alleviation.*

## YEAR 2019 (C)



# MICHAEL KREMER

1. *Full Name: Michael Robert Kremer*
2. *Date of Birth and Death: 12 November 1964 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2019*
5. *Institution/University at the Time of Award: Harvard University, USA*
6. *Field of Contribution / Research Area:*  
*Development Economics, Education, Health, Experimental Economics*
7. *Citation: "For their experimental approach to alleviating global poverty."*
8. *Major Works / Publications:*
  - *Pioneering field studies in Kenya on education and health*
  - *Research on vaccines, innovation, and development policies*
  - *Numerous academic papers on growth and poverty reduction*
9. *Key Contributions:*
  - *Among the first to use field experiments in economics.*
  - *His work on deworming in Kenyan schools showed dramatic improvements in student attendance and health.*
  - *Provided a foundation for Banerjee and Duflo's large-scale experimental research.*
10. *Legacy / Impact on Economics:*
  - *Directly influenced global health and education programs (e.g., deworming campaigns, vaccination policies).*
  - *Helped transform development economics into a rigorous, scientific discipline.*
  - *His early fieldwork continues to shape large-scale interventions in developing countries.*

YEAR 2020 (A)



## ROBERT WILSON

- 1) Full Name: Robert Butler Wilson
- 2) Date of Birth and Death: 16 May 1937 - living
- 3) Nationality: American
- 4) Year of Nobel Prize in Economics: 2020
- 5) Institution/University at the Time of Award: Stanford University, USA
- 6) Field of Contribution / Research Area: Auction Theory, Market Design
- 7) Citation: "For improvements to auction theory and inventions of new auction formats."
- 8) Major Works / Publications:
  - Nonlinear Pricing (1993)
  - "The Theory of the Syndicates" (1968)
  - Foundational papers on common value auctions
- 9) Key Contributions:
  - Developed theories explaining how bidders behave when the value of an item is uncertain but similar for everyone (common value).
  - Showed how "winner's curse" shapes bidding strategies.
  - His work provided the theoretical foundation for modern spectrum and electricity auctions.
- 10) Legacy / Impact on Economics:
  - Revolutionized practical auctions used by governments worldwide.
  - His insights led to efficient allocation of public resources like radio frequencies, electricity markets, and emissions permits.

## YEAR 2020 (B)



# PAUL MILGROM

- 1) *Full Name: Paul Robert Milgrom*
- 2) *Date of Birth and Death: 20 April 1948 - living*
- 3) *Nationality: American*
- 4) *Year of Nobel Prize in Economics: 2020*
- 5) *Institution/University at the Time of Award: Stanford University, USA*
- 6) *Field of Contribution / Research Area: Auction Theory, Game Theory, Market Design*
- 7) *Citation: "For improvements to auction theory and inventions of new auction formats."*
- 8) *Major Works / Publications:*
  - *Putting Auction Theory to Work (2004)*
  - *Seminal papers on incentive theory, auctions, and market design*
- 9) *Key Contributions:*
  - *Designed new auction formats that allow governments to maximize public value while ensuring efficiency.*
  - *Introduced Simultaneous Multiple Round Auctions (SMRA) used for allocating radio frequencies.*
  - *Extended auction theory to complex, real-world markets with multiple goods.*
- 10) *Legacy / Impact on Economics:*
  - *Directly shaped how governments allocate trillions worth of assets.*
  - *His methods are widely applied in telecommunications, finance, and energy markets.*
  - *Seen as one of the greatest innovators in market design.*

## YEAR 2021 (A)



## DAVID CARD

- 1) *Full Name: David Edward Card*
- 2) *Date of Birth and Death: 1956–living*
- 3) *Nationality: Canadian–American*
- 4) *Year of Nobel Prize in economics: 2021*
- 5) *Institution/University at the Time of Award: University of California, Berkeley, USA*
- 6) *Field of Contribution / Research Area: Labor Economics, Empirical Microeconomics*
- 7) *Citation: “For his empirical contributions to labour economics.”*
- 8) *Major Works / Publications:*
  - *Myth and Measurement: The New Economics of the Minimum Wage (1995, with Alan Krueger)*
  - *Seminal studies on immigration, education, and inequality*
- 9) *Key Contributions:*
  - *Challenged conventional wisdom that minimum wage reduces employment.*
  - *Showed that immigration does not necessarily harm native workers' wages.*
  - *Pioneered natural experiment methods to study labor markets.*
- 10) *Legacy / Impact on Economics:*
  - *Transformed empirical labor economics.*
  - *Influenced minimum wage and immigration policies worldwide.*
  - *Inspired widespread use of “natural experiments” in economics.*

YEAR 2021 (B)



## JOSHUA ANGRIST

1. *Full Name: Joshua David Angrist*
2. *Date of Birth and Death: 18 September 1960 - living*
3. *Nationality: Israeli-American*
4. *Year of Nobel Prize in Economics: 2021*
5. *Institution/University at the Time of Award: Massachusetts Institute of Technology (MIT), USA*
6. *Field of Contribution / Research Area: Econometrics, Labor Economics, Education Economics*
7. *Citation: "For their methodological contributions to the analysis of causal relationships."*
8. *Major Works / Publications:*
  - *Mostly Harmless Econometrics (2009, with Jörn-Steffen Pischke)*
  - *Research on compulsory schooling, class size, and labor markets*
9. *Key Contributions:*
  - *Developed innovative econometric methods for identifying causal effects in observational data.*
  - *Advanced instrumental variable techniques.*
  - *Applied methods to study education policies, labor, and social programs.*
10. *Legacy / Impact on Economics:*
  - *Helped establish causal inference as a cornerstone of modern applied economics.*
  - *His textbook trained a generation of empirical economists.*
  - *Influenced global education and labor policy evaluation.*

YEAR 2021 (C)



## GUIDO IMBENS

1. *Full Name: Guido Wilhelmus Imbens*
2. *Date of Birth and Death : 3 September 1963 - living*
3. *Nationality: Dutch-American*
4. *Year of Nobel Prize in Economics: 2021*
5. *Institution/University at the Time of Award: Stanford University, USA*
6. *Field of Contribution / Research Area: Econometrics, Causal Inference*
7. *Citation: "For their methodological contributions to the analysis of causal relationships."*
8. *Major Works / Publications:*
  - *Seminal papers on Local Average Treatment Effect (LATE)*
  - *Contributions to matching and instrumental variable methods*
9. *Key Contributions:*
  - *Developed statistical frameworks for estimating causal effects in observational studies.*
  - *Provided clarity on interpreting instrumental variables.*
  - *Helped create tools that are now standard in empirical economics.*
10. *Legacy / Impact on Economics:*
  - *His methods transformed how economists evaluate policies when randomized trials are impossible.*
  - *Widely cited in social sciences, medicine, and policy research.*
  - *Strengthened evidence-based policymaking across fields.*

YEAR 2022 (A)



## BEN BERNANKE

1. Full Name: Ben Shalom Bernanke
2. Date of Birth and Death: 13 December 1953 -living
3. Nationality: American
4. Year of Nobel Prize in Economics: 2022
5. Institution/University at the Time of Award: Brookings Institution, Washington, D.C., USA
6. Field of Contribution / Research Area: Macroeconomics; Banking; Financial Crises; Monetary Policy
7. Citation: "For research on banks and financial crises."
8. Major Works / Publications:
  - Nonmonetary Effects of the Financial Crisis in the Propagation of the Great Depression (1983)
  - Essays on the Great Depression (2000)
  - The Courage to Act: A Memoir of a Crisis and Its Aftermath (2015)
9. Key Contributions:
  - Showed how bank failures during the Great Depression intensified and prolonged the crisis.
  - Linked financial sector instability to real economic outcomes, changing understanding of monetary transmission.
  - Provided frameworks for crisis management later applied during the 2008 financial crisis.



*10. Legacy / Impact on Economics:*

- *Deepened global understanding of the role of financial intermediaries in macroeconomic stability.*
- *Influenced central banking policy, especially crisis interventions.*
- *As former Chair of the Federal Reserve, put academic insights into practice during the 2008 global financial meltdown.*

YEAR 2022 (B)



## DOUGLAS DIAMOND

1. *Full Name: Douglas Warren Diamond*
2. *Date of Birth and Death: 25 October 1953 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2022*
5. *Institution/University at the Time of Award: University of Chicago Booth School of Business, USA*
6. *Field of Contribution / Research Area: Banking Theory; Financial Intermediation; Bank Runs; Liquidity*
7. *Citation: "For research on banks and financial crises."*
8. *Major Works / Publications:*
  - *Bank Runs, Deposit Insurance, and Liquidity (with Philip Dybvig, 1983)*
  - *Financial Intermediation and Delegated Monitoring (1984)*
  - *Liquidity, Banks, and Markets (2007)*
9. *Key Contributions:*
  - *Co-developed the Diamond-Dybvig model, explaining why banks exist, their social role, and why they are prone to runs.*
  - *Showed how deposit insurance and regulatory structures prevent bank panics.*
  - *Provided theoretical foundations for modern financial stability policy.*
10. *Legacy / Impact on Economics:*
  - *His models are a cornerstone of banking and financial economics.*
  - *Informed policy responses to banking crises, including design of deposit insurance.*
  - *Work continues to shape regulatory debates on banking reforms after the 2008 financial crisis.*

YEAR 2022 (C)



## PHILIP DYBVIG

1. *Full Name: Philip Hallen Dybvig*
2. *Date of Birth and Death: 25 September 1955 - living*
3. *Nationality: American*
4. *Year of Nobel Prize in Economics: 2022*
5. *Institution/University at the Time of Award: Washington University in St. Louis, Olin Business School, USA*
6. *Field of Contribution / Research Area: Banking Theory; Financial Crises; Risk and Liquidity*
7. *Citation: "For research on banks and financial crises."*
8. *Major Works / Publications:*
  - *Bank Runs, Deposit Insurance, and Liquidity (with Douglas Diamond, 1983)*
  - *Optimal Banking Contracts (1993)*
  - *Continuous-Time Models of Portfolio Choice and Asset Pricing (2001)*
9. *Key Contributions:*
  - *Co-author of the Diamond-Dybvig model of banking, explaining bank fragility and the role of deposit insurance.*
  - *Work on portfolio theory, asset pricing, and contracts in financial systems.*
  - *Developed insights into systemic risk and the design of financial safeguards.*



*10. Legacy / Impact on Economics:*

- *His joint model with Diamond is central to how economists and policymakers understand bank runs.*
- *Helped formalize the rationale for deposit insurance and central bank intervention.*
- *His research underpins modern thinking on financial stability frameworks.*

YEAR 2023



## CLAUDIA GOLDIN



1. *Full Name:* Claudia Dale Goldin
2. *Date of Birth and Death:* 14 May 1946 - living
3. *Nationality:* American
4. *Year of Nobel Prize in Economics:* 2023
5. *Institution/University at the time of award:* Harvard University, Cambridge, MA, USA
6. *Field:* Labor Economics, Gender Economics
7. *Citation:* "For having advanced our understanding of women's labor market outcomes."
8. *Major Works*
  - Goldin, C. (1990). *Understanding the gender gap: An economic history of American women*.
  - Goldin, C. (2021). *Career and family: Women's century-long journey toward equity. [Historical trends in women's labor force participation]*
9. *Key Contributions*
  - Revealed the patterns, causes, and effects of women's labor participation and wage gaps.
  - Influenced policy and awareness of gender equity.
10. *Legacy/Impact:* Goldin's work shaped debates and reforms on equitable labor practices, influencing both academic research and public policy.

YEAR 2024 (A)



## DARON ACEMOĞLU

1. Full Name: Daron Acemoglu
2. Date of Birth and Death : 3 September 1967 – living
3. Nationality: Turkish / U.S
4. Year of Nobel Prize in Economics: 2024.
5. Institution/University at the Time of Award: Massachusetts Institute of Technology (MIT), Department of Economics.
6. Field of Contribution / Research Area: Political economy, economic history, development economics – work on how institutions shape long-run economic outcomes.
7. Citation: Awarded jointly “for studies of how institutions are formed and affect prosperity.”
8. Major Works / Publications:
  - Selected highlights – *The Colonial Origins of Comparative Development: An Empirical Investigation* (Acemoglu, Johnson & Robinson, AER 2001)
  - *Reversal of Fortune* (QJE 2002); *Economic Origins of Dictatorship and Democracy* (book, with J. A. Robinson)
  - *Why Nations Fail* (book, with J. A. Robinson); *Introduction to Modern Economic Growth* (textbook)
  - *Power and Progress* (with S. Johnson).



*9. Key Contributions: Developed empirical and theoretical frameworks showing that differences in political and economic institutions (often shaped by colonial policies and settler mortality) are a primary explanation for persistent differences in national prosperity; formalized mechanisms for persistence of “extractive” vs. “inclusive” institutions and how institutional change occurs.*

*10. Legacy / Impact on Economics:*

- Reinvigorated the study of institutions in development economics and economic history*
- established high-impact empirical strategies (historical instruments) used across multiple fields*
- Influenced policy conversations about state capacity, property rights, and democratization as routes to long-run growth.*
- The work reshaped how economists and political scientists link historical events to present-day economic outcomes.*



YEAR 2024 (B)



## SIMON JOHNSON

1. Full Name: *Simon Henry Roberts Johnson.*
2. Date of Birth and Death: *16 January 1963 – living*
3. Nationality: *British (UK-born) / U.S.-based academic.*
4. Year of Nobel Prize in Economics: *2024.*
5. Institution/University at the Time of Award: *Massachusetts Institute of Technology (MIT) – Professor (MIT Sloan / Economics affiliations).*
6. Field of Contribution / Research Area: *Development economics, political economy, macroeconomics – with emphasis on institutions, growth, and the long-run effects of colonialism and policy on prosperity.*
7. Citation: *Joint award “For studies of how institutions are formed and affect prosperity.”*
8. Major Works / Publications:
  - *Co-author on the foundational AJR pieces (AER 2001 The Colonial Origins of Comparative Development; QJE 2002 Reversal of Fortune)*
  - *books and essays on growth, institutions and technology (including Power and Progress, co-authored with D. Acemoglu).*
9. Key Contributions:
  - *Collaborated on the empirical strategy linking historical settler mortality and colonization strategies to modern institutions and income*
  - *Contributed to the theoretical and empirical literature showing how initial institutional choices produce long-run divergence in prosperity and how institutions persist or change.*



*10. Legacy / Impact on Economics:*



- *Helped establish robust empirical evidence connecting colonial history to contemporary development outcomes*
- *work strengthened interdisciplinary ties between economics, history and political science and influenced both academic research agendas and policy debates on state capacity and institutional reform.*

YEAR 2024 (C)



## JAMES ROBINSON

1. Full Name: James Alan Robinson
2. Date of Birth and Death : 27 February 1960 - living
3. Nationality: British (UK-born) / U.S.-based academic
4. Year of Nobel Prize in Economics: 2024.
5. Institution/University at the Time of Award: University of Chicago (Professor) – long affiliations with U.S. institutions and global research.
6. Field of Contribution / Research Area: Political economy, comparative historical analysis, development economics – with special focus on institutions, democratization, and the political origins of economic outcomes.
7. Citation: Joint award “For studies of how institutions are formed and affect prosperity.”
8. Major Works / Publications:
  - *The Colonial Origins of Comparative Development* (with Acemoglu & Johnson, *AER* 2001)
  - *Economic Origins of Dictatorship and Democracy* (book, with D. Acemoglu)
  - *Why Nations Fail* (book, with D. Acemoglu)
  - *The Narrow Corridor* (with D. Acemoglu)
  - numerous influential articles on institutions and development.



*9. Key Contributions: Co-developed the influential empirical evidence and theoretical interpretations showing how colonial-era institutions and political choices produced divergent institutional paths and thus divergent economic fortunes; emphasized the political mechanisms (elite vs. masses, commitment problems) shaping institutional persistence and change.*

*10. Legacy / Impact on Economics: A central figure in the institutional turn in development economics; his collaborative books and papers are widely read beyond economics (policy makers, historians, political scientists), and they shaped new empirical methods and substantive debates about how to promote inclusive institutions and sustainable development.*





YEAR 2025 (A)



## PHILIPPE AGHION

1. Full Name: *Philippe Mario Aghion*
2. Date of Birth and Death: *17 August 1956 - living*
3. Nationality: *French*
4. Year of Nobel Prize in Economics: *2025*
5. Institution / University at the Time of Award: *Collège de France (Paris), INSEAD (Paris), London School of Economics (UK)*
6. Field of Contribution / Research Area: *Economic growth, innovation, endogenous growth theory, "creative destruction"*
7. Citation: *"For the theory of sustained growth through creative destruction"*
8. Major Works / Publications:
  - *Aghion, P., & Howitt, P. (2009). The Economics of Growth. MIT Press.*
  - *Aghion, P., Antonin, C., & Bunel, S. (2021). The Power of Creative Destruction: Economic Upheaval and the Wealth of Nations. Harvard University Press.*
  - *Aghion, P., & Griffith, R. (2006). Competition and Growth. MIT Press.*
9. Key Contributions:
  - *Developed (with Peter Howitt) the Aghion–Howitt endogenous growth model, which formalizes how innovation and R&D drive growth.*
  - *Introduced the concept of creative destruction in growth theory: new, more efficient firms or technologies replace older ones, which fuels long-term economic dynamism.*

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- *Emphasized the role of competition, institutional quality, and policy in sustaining innovation, arguing that growth depends on not just invention but on the structure of markets and regulatory/social institutions.*

*10. Legacy / Impact on Economics:*


- *Aghion's work has reshaped modern growth theory by integrating innovation, competition, and destruction; his models are widely used in macroeconomic policy to think about R&D, antitrust, and industrial policy.*
- *His ideas influence how governments design innovation policy: balancing competition (to foster creative destruction) and support for R&D.*
- *Through his research and teaching, he has trained a generation of economists in endogenous growth theory and contributed to academic and policy debates around technological leadership, especially in a globalized economy.*

YEAR 2025 (B)



## JOEL MOKYR

1. Full Name: *Joel Michael Mokyr*
2. Date of Birth and Death: *26 July 1946 -living*
3. Nationality: *American, Israeli*
4. Year of Nobel Prize in Economics: *2025*
5. Institution / University at the Time of Award: *Northwestern University (Evanston, IL, USA) and Tel Aviv University (Eitan Berglas School of Economics)*
6. Field of Contribution / Research Area: *Economic history; technological progress; knowledge evolution*
7. Citation: *"For having identified the prerequisites for sustained growth through technological progress"*
8. Major Works / Publications:
  - *The Culture of Growth: The Origins of the Modern Economy (often cited)*
  - *A Culture of Improvement (another of his well-known books)*
  - *Edited volumes, e.g., The Oxford Encyclopedia of Economic History*
9. Key Contributions:
  - *He argued that sustained economic growth depends not only on inventions but on a culture of useful knowledge (scientific understanding) that accumulates over time.*
  - *He identified three prerequisites for sustained growth: useful propositional knowledge, mechanical competence (ability to apply that knowledge), and institutions conducive to innovation.*
  - *He used historical analysis to show how societies that were more open to intellectual change and technological disruption were better able to sustain innovation over long periods.*



*10. Legacy / Impact on Economics:*

*Mokyr's work bridges economic history and growth theory, showing that long-run economic growth is deeply rooted in the evolution of knowledge and institutions.*

*His insights influence how policymakers think about innovation policy: not just supporting R&D, but fostering open societies and educational institutions that can build and disseminate knowledge.*


*He has trained many students and contributed to the historiography of the industrial revolution, influencing economic historians and growth economists alike.*

YEAR 2025 (C)



## PETER HOWITT

1. *Full Name: Peter Wilkinson Howitt*
2. *Date of Birth and Death: 31 May 1946 - living*
3. *Nationality: Canadian*
4. *Year of Nobel Prize in Economics: 2025*
5. *Institution / University at the Time of Award: Brown University, Providence, Rhode Island, USA*
6. *Field of Contribution / Research Area: Economic growth, endogenous growth theory, creative destruction, macroeconomics*
7. *Citation: "For the theory of sustained growth through creative destruction"*
8. *Major Works / Publications:*
  - *Howitt, P., & Aghion, P. Endogenous Growth Theory. MIT Press.*
  - *Howitt, P. The Economics of Growth. (with Aghion) MIT Press.*
  - *Other essays: The Keynesian Recovery and Other Essays etc.*
9. *Key Contributions:*
  - *Co-developed with Aghion the Aghion–Howitt endogenous growth model, which explains long-term growth as driven by innovation, entry of new firms, and the replacement of old technologies.*
  - *Formalized the notion of creative destruction in a rigorous economic framework: innovation both creates and destroys economic value, and this churn is central for sustained growth.*
  - *Emphasized the role of market competition, firm dynamics, and policy in fostering an environment where innovation can thrive, and inefficient incumbents are replaced.*



10. *Legacy / Impact on Economics:*

- *Howitt's work (together with Aghion) is foundational in modern endogenous growth theory; their creative destruction model is taught widely in macroeconomics and growth courses.*
- *His insights inform policy debates on innovation, market competition, and regulation: how to design systems that encourage technological renewal without stifling existing productive firms.*
- *Through his academic career, he has supervised PhD students, published influential work, and contributed to bridging theoretical economics with practical, policy-relevant growth models.*

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- Nobel Prize Outreach AB. (2022). Prize in Economic Sciences 2022 – Diamond & Dybvig.
- Nobel Prize. (2023). Prize in Economic Sciences 2023 – Popular science background.
- Nobel Prize. (2024). Prize in Economic Sciences 2024 – Acemoglu, Johnson & Robinson.

# Chronicle Contributors

This Chronicle is the result of the collective efforts of enthusiastic student members of the Economics Club. Each contributor has researched and prepared write-ups on the Nobel Laureates in Economics, making this compilation possible.

Contributors:

1. Asha Ram - Ragnar Frisch and Jan Tinbergen (1969), George Akerlof, Michael Spence, and Joseph Stiglitz (2001), Daniel Kahneman and Vernon Smith (2002)
2. Krupali Naik- Paul Samuelson (1970), Franco Modigliani (1985), James Buchanan (1986)
3. Natalie Deruz- Simon Kuznets (1971), Kenneth Arrow and John Hicks (1972)
4. Sebastiao Fernandes- Wassily Leontief (1973), Gunnar Myrdal and Friedrich Hayek (1974), Paul Milgrom and Robert Wilson (2020), David Card, Joshua Angrist, and Guido Imbens (2021)
5. Vanessa Fernandes- Leonid Kantorovich and Tjalling Koopmans (1975), Milton Friedman (1976)
6. Akash Apayanawar- Peter Diamond, Dale Mortensen, and Christopher Pissarides (2010) Thomas Sargent and Christopher Sims (2011)
7. Pallavi Agarwadekar- Theodore Shultz and Arthur Lewis (1979), George Stigler (1982) Ben Bernanke, Douglas Diamond, and Philip Dybvig (2022)
8. Safana Aga- Lawrence Klein (1980), Trygve Haavelmo (1989), Harry Markowitz, Merton Miller, and William Sharpe (1990)
9. Purva Naik- James Tobin (1981), Robert Lucas (1995), Abhijit Banerjee, Esther Duflo, and Michael Kremer (2019)
10. Somya Madtekar- Gérard Debreu (1983), Richard Stone (1984)
11. Wonchon Hacialhimaya- Robert Solow (1987), Claudia Goldin (2023)
12. Samuel Braganca- Maurice Allais (1988), Daron Acemoglu, Simon Johnson, and James Robinson (2024)
13. Sanchita Uskaikar- Ronald Coase (1991), Gary Becker (1992), James Mirrlees and William Vickrey (1996)
14. Jiya Naik- Robert Fogel and Douglass North (1993), Richard Thaler (2017), William Nordhaus and Paul Romer (2018)
15. Pearl Fernandes- John Harsanyi, John Nash, and Reinhard Selten (1994), Robert Merton and Myron Scholes (1997)
16. Ezra D'Souza- Robert Mundell (1999), James Heckman and Daniel McFadden (2000)
17. Saniya Ahmad - Robert Engle and Clive Granger (2003), Finn Kydland and Edward Prescott (2004)
18. Zeon Zacharia- Thomas Schelling and Robert Aumann (2005), Edmund Phelps (2006)
19. Eugenia Machado- Leonid Hurwicz, Eric Maskin, and Roger Myerson (2007), Paul Krugman (2008)
20. Nessa Satardekar- Elinor Ostrom and Oliver Williamson (2009), Oliver Hart and Bengt Holmström (2016)



## *Chronicle Contributors*

21. Chhabir Shah- Bertil Ohlin and James Meade (1977), Herbert Simon (1978)

22. Sanjana Navekar- Alvin Roth and Lloyd Shapley (2012), Eugene Fama, Lars Peter Hansen and Robert Shiller (2013)

23. Melina Cardoz- Jean Tirole (2014), Angus Deaton (2015)

25. Omkar Karpe- Joel Mokyr, Peter Howitt and Philippe Aghion (2025)

### *Editorial Team*

*Minoshka Maryanne Fernandes – Overall Compilation & Editing*

*Omkar Mohan Karpe – Proofreading & compilation*

*Melina Cardoz – Layout & design*



## *Closing Note*

We hope this *Chronicle of Nobel Prize Laureates in Economics* serves not only as a record of great minds but also as a source of inspiration for students and readers. The achievements of these economists remind us that ideas have the power to shape societies, transform economies, and improve lives.

May this compilation encourage curiosity, spark new thoughts, and motivate us to continue exploring the fascinating world of economics with passion and purpose.

*“Honoring Minds, Inspiring Futures.”*