

environmental economics nick hanley Study Guide

Environmental Economics Nick Hanley is a prominent name in the field of environmental economics, renowned for his extensive research, academic contributions, and dedication to understanding how economic principles can be applied to address pressing environmental issues. His work bridges the gap between economic theory and real-world environmental challenges, offering insights into sustainable development, resource management, and policy formulation. For students, researchers, policymakers, and environmental advocates, Nick Hanley's contributions provide a comprehensive foundation for understanding the economic dimensions of environmental issues.

In this article, we will explore the life and work of Nick Hanley, delve into the core concepts of environmental economics he advocates, examine his notable publications and research, and discuss how his insights influence environmental policy and practice today.

Who Is Nick Hanley?

Nick Hanley is a distinguished economist whose expertise lies at the intersection of environmental and resource economics. He is a professor at the University of Glasgow and has held academic positions across several institutions worldwide. His research primarily focuses on valuation methods for environmental goods, cost-benefit analysis of environmental policies, and the behavioral aspects influencing environmental decision-making.

Academic Background and Career Highlights

- PhD in Economics from the University of Manchester
- Former Professor at the University of Stirling
- Currently a Professor of Environmental and Resource Economics at the University of Glasgow
- Co-editor of the Environmental and Resource Economics journal
- Contributor to numerous international research projects and policy advisory panels

Key Contributions

Nick Hanley is widely recognized for his work on:

- Contingent valuation methods
- Non-market valuation techniques
- Economic implications of biodiversity and ecosystem services
- Policy analysis for climate change mitigation and adaptation strategies

Core Concepts in Environmental Economics According to Nick Hanley

Environmental economics, as articulated by Nick Hanley, involves understanding how economic activities impact the environment and how economic tools can promote sustainable practices. Key concepts include:

- Valuation of Environmental Goods

Since many environmental resources and amenities do not have market prices, Hanley emphasizes developing methods to assign monetary values to these goods. This allows policymakers to incorporate environmental considerations into economic decision-making.

Methods include:

- Contingent Valuation Method (CVM)
- Choice Modeling
- Travel Cost Method
- Hedonic Pricing

- Externalities and Market Failures

Hanley highlights the importance of addressing externalities—costs or benefits not reflected in market prices—that lead to market failures. His work advocates for policy interventions such as taxes, subsidies, and tradable permits to correct these failures and promote environmental sustainability.

- Cost-Benefit Analysis (CBA)

He advocates for rigorous CBA in evaluating environmental policies, ensuring that the benefits of environmental protection outweigh the costs. This involves quantifying both market and non-market impacts, a process central to effective policy formulation.

- Incentive-Based Policies

Hanley supports the use of market-based instruments over command-and-control regulations, believing they provide flexible and economically efficient solutions. Examples include pollution taxes and cap-and-trade systems.

Notable Publications and Research

Nick Hanley's scholarly work has significantly influenced the field of environmental economics. Some of his notable publications include:

- Economics of Biodiversity and Ecosystem Services

This work emphasizes the economic valuation of biodiversity, highlighting its critical role in supporting human well-being and the importance of integrating biodiversity conservation into economic planning.

- Environmental and Natural Resource Economics

Co-authored with Robert S. Just, this textbook provides foundational knowledge for students and practitioners, covering valuation techniques, policy analysis, and market failures.

- Valuing the Environment: Methods and Applications

This publication discusses various valuation methods and their applications in policy contexts, offering practical guidance for researchers and policymakers.

- Research on Climate Change Policies

Hanley's recent studies analyze the economic impacts of climate policies, including carbon pricing and renewable energy incentives, emphasizing the importance of economic tools in combating climate change.

The Impact of Nick Hanley's Work on Environmental Policy

Nick Hanley's research has had a profound influence on environmental policy worldwide. His emphasis on rigorous valuation methods and cost-benefit analysis has helped shape policies that

are economically sound and environmentally effective.

Key Areas of Influence:

- Biodiversity Conservation: Promoting economic valuation to inform land-use planning and habitat protection.
- Climate Change Mitigation: Supporting the design of carbon pricing mechanisms and emission trading schemes.
- Natural Resource Management: Encouraging sustainable exploitation of fisheries, forests, and water resources through market-based instruments.

Policy Recommendations

- Incorporate non-market valuation in environmental impact assessments
- Use economic incentives to align private interests with environmental goals
- Recognize the importance of behavioral factors in policy design

Why Environmental Economics and Nick Hanley's Approach Matter Today

As environmental challenges intensify?from climate change to biodiversity loss?applying sound economic principles becomes ever more critical. Nick Hanley's approach offers practical tools for integrating environmental considerations into economic policy, ensuring that sustainability is not sacrificed for short-term gains.

The Relevance of His Work

- Providing methods to value ecosystem services, crucial for natural capital accounting
- Enabling policymakers to make informed decisions based on comprehensive economic analysis
- Facilitating the design of effective and efficient environmental policies

Future Directions

- Enhancing valuation techniques with advancements in data and technology
- Integrating behavioral economics to understand public response to environmental policies
- Developing innovative market-based solutions for emerging environmental issues

Conclusion

Environmental Economics Nick Hanley stands as a leading figure whose research and insights continue to shape the way we understand and address environmental challenges through economic lenses. His emphasis on valuation, market-based instruments, and rigorous analysis provides a robust framework for designing policies that balance economic development with environmental preservation. As the world grapples with complex ecological crises, Hanley's work offers valuable guidance for creating sustainable solutions that benefit both society and the planet.

Whether you are a student beginning your journey in environmental economics or a policymaker seeking effective strategies, understanding Nick Hanley's contributions is essential. His pioneering efforts bridge theory and practice, inspiring innovative approaches to achieve a sustainable future.

Keywords for SEO Optimization:

- Environmental economics
- Nick Hanley
- Valuation methods
- Non-market valuation
- Cost-benefit analysis
- Biodiversity valuation
- Climate policy
- Market-based environmental policies
- Sustainable development
- Natural resource management
- Environmental policy solutions

Environmental Economics Nick Hanley: A Pioneering Scholar Shaping Sustainable Policy

Environmental economics, a vital discipline at the intersection of economics and ecology, seeks to understand how economic activities impact the environment and how policies can be crafted to promote sustainable development. Among the influential figures in this field, Nick Hanley stands out as a scholar whose research, teaching, and policy work have significantly advanced our understanding of environmental valuation, resource management, and climate change economics. His contributions have helped bridge theoretical insights with practical applications, influencing policymakers, academics, and environmental advocates worldwide.

Introduction to Nick Hanley and His Academic Journey

Nick Hanley is a renowned British environmental economist whose academic career spans several

decades, marked by influential research and leadership in the field. He is currently a Professor of Environmental Economics at the University of St Andrews in Scotland, where he also serves as the Director of the Centre for Research in Economic Development and International Trade.

Hanley's academic path began with a strong foundation in economics, complemented by a deep interest in environmental issues. His doctoral work focused on environmental valuation techniques, a theme that would become a cornerstone of his scholarly contributions. Over the years, Hanley has authored numerous books, academic papers, and policy reports that explore complex issues related to natural resource management, biodiversity, and climate policy.

His career has also involved extensive collaboration with international organizations such as the World Bank, the European Environment Agency, and the United Nations, reflecting his commitment to applying economic insights to real-world environmental challenges.

Core Contributions to Environmental Economics

Nick Hanley's work centers around several key themes within environmental economics. His research has not only advanced theoretical understanding but also provided practical tools for policymakers and stakeholders aiming to address environmental issues effectively.

1. Valuation of Non-Market Environmental Goods

One of Hanley's most significant contributions is in the field of environmental valuation?methods to quantify the benefits and costs of environmental changes that are not traded in markets, such as biodiversity, scenic beauty, and ecosystem services.

- Contingent Valuation Method (CVM): Hanley has refined and promoted the use of CVM, which involves surveying individuals to determine their willingness to pay for specific environmental benefits or to avoid damages. His work has helped improve the reliability and validity of CVM, addressing common criticisms related to bias and strategic behavior.

- Choice Experiments: Hanley has also been a pioneer in applying and advancing discrete choice experiments, a method that presents respondents with choices among different policy scenarios, capturing preferences more accurately.

- Policy Impact: His valuation research has directly influenced environmental policies, such as the valuation of wetlands, forests, and marine areas, aiding governments in cost-benefit analyses and resource allocation decisions.

2. Natural Resource Management and Sustainability

Hanley's insights extend to sustainable management of natural resources, emphasizing the importance of economic incentives and market-based instruments.

- **Market-Based Instruments:** He advocates for tools like carbon pricing, tradable permits, and payments for ecosystem services as effective means to align economic incentives with conservation goals.

- **Sustainable Exploitation:** His research highlights the importance of balancing resource extraction with ecological preservation, emphasizing adaptive management strategies that incorporate economic analysis.

3. Climate Change Economics

A critical area of Hanley's work involves the economics of climate change, where he explores valuation of climate damages, carbon pricing mechanisms, and policy design.

- **Climate Damages Valuation:** Hanley has contributed to understanding how to quantify the economic impacts of climate change, including impacts on agriculture, health, and infrastructure.

- **Policy Design:** He emphasizes the importance of international cooperation and robust policy frameworks to effectively mitigate greenhouse gas emissions, advocating for market mechanisms such as carbon taxes and cap-and-trade systems.

- **Intergenerational Equity:** His work often considers the ethical dimensions of climate policy, ensuring that future generations are accounted for in current decision-making.

Academic and Policy Influence

Nick Hanley's influence extends beyond academic circles into practical policymaking and public discourse.

Academic Leadership and Education

- Hanley has supervised numerous PhD students who now serve as scholars and policymakers, thereby fostering the next generation of environmental economists.

- His textbooks, including *Environmental Economics: In Practice*, are widely used in university courses worldwide, shaping curricula and inspiring students.

Policy Advisory Roles

- Hanley has provided expert advice to government agencies, NGOs, and international organizations, helping craft policies grounded in rigorous economic analysis.

- His involvement in valuation studies has been instrumental in establishing environmental accounting practices within national economic accounts.

Publications and Thought Leadership

- His prolific publication record includes seminal papers on environmental valuation, resource management, and climate policy.

- Hanley's work often emphasizes the importance of integrating economic tools with ecological understanding to achieve sustainable outcomes.

Critical Perspectives and Ongoing Debates

While Hanley's contributions have been widely celebrated, his work also engages with ongoing debates within environmental economics.

Challenges in Environmental Valuation

- Critics argue that valuation techniques may oversimplify complex ecological and ethical considerations, potentially leading to under- or over-estimation of environmental benefits.

- Hanley acknowledges these limitations but emphasizes that valuation provides a necessary, albeit imperfect, instrument for informing policy.

Market Instruments vs. Regulatory Approaches

- Hanley advocates for market-based solutions but recognizes that they are not universally applicable or sufficient on their own.

- Debates continue over the role of regulation versus economic incentives, with Hanley contributing nuanced perspectives on designing effective hybrid policies.

Equity and Distributional Concerns

- His work also touches on the distributional impacts of environmental policies, advocating for approaches that address social justice alongside ecological sustainability.

Future Directions and Impact

Looking ahead, Nick Hanley's work remains highly relevant in tackling pressing global environmental challenges.

Advancing Valuation Techniques

- Incorporating new data sources, such as remote sensing and big data, to improve valuation accuracy.

- Developing methods to better capture non-use values and ethical considerations.

Integrating Economics with Ecological Science

- Promoting interdisciplinary approaches that combine ecological modeling with economic analysis.

- Supporting the development of ecosystem service frameworks that inform land-use planning and conservation.

Policy Innovation

- Helping design innovative market mechanisms for climate mitigation, biodiversity conservation, and pollution control.

- Facilitating international agreements that incorporate economic incentives for sustainable development.

Nick Hanley's work exemplifies the critical role of environmental economics in guiding societies toward sustainable futures. His rigorous analytical approach, coupled with a commitment to practical policy impact, makes him a leading voice in the ongoing quest to reconcile economic development with ecological integrity. As environmental challenges grow more urgent, his insights will undoubtedly continue to influence both academic inquiry and policymaking worldwide.

Conclusion

In summary, Nick Hanley's contributions to environmental economics have been transformative, providing essential tools for valuing nature, managing resources sustainably, and designing effective climate policies. His scholarly work underscores the importance of integrating economic reasoning with ecological realities, fostering a more holistic approach to environmental stewardship. As the world confronts complex environmental crises, Hanley's research and policy advocacy serve as guiding lights toward a more sustainable and equitable future.

Question Who is Nick Hanley and what is his contribution to environmental economics? Nick Hanley is a prominent economist known for his work in environmental economics, particularly in valuation methods and sustainable resource management. He has contributed significantly through academic research, teaching, and policy advising, helping to quantify the economic benefits of environmental preservation. **What are some key concepts introduced by Nick Hanley in environmental economics?** Nick Hanley has emphasized concepts such as non-market valuation, ecosystem service valuation, and the importance of integrating environmental externalities into economic decision-making. His work often focuses on how to assign monetary values to environmental benefits and costs. **How has Nick Hanley's research influenced environmental policy?** Hanley's research has provided policymakers with tools to better evaluate the economic impacts of environmental regulations and projects. His work on valuation techniques has helped shape policies that aim for cost-effective environmental protection and sustainable resource use. **What are some notable publications by Nick Hanley in the field of environmental economics?** Some notable publications include 'Cost-Benefit Analysis and the Environment' and various articles in leading journals that explore environmental valuation, policy analysis, and sustainable development, reflecting his expertise in applying economic principles to environmental issues. **What current trends in environmental economics is Nick Hanley associated with?** Nick Hanley is associated with emerging trends such as integrating ecosystem services into economic analysis, advancing non-market valuation techniques, and promoting sustainable development policies that balance

economic growth with environmental conservation.

Related keywords: sustainable development, natural resources, externalities, ecological economics, environmental policy, valuation methods, resource management, climate change economics, conservation, external costs

Department Of Economics Economics By

Department of Economics Economics By is a comprehensive academic discipline dedicated to understanding how societies allocate scarce resources to meet unlimited wants and needs. As a fundamental pillar of social sciences, economics explores the mechanisms behind production, distribution, and consumption of goods and services. The department of economics plays a vital role in shaping policies, fostering research, and developing analytical tools that help address complex economic challenges in both local and global contexts.

In this article, we delve into the multifaceted world of the department of economics, examining its core functions, academic offerings, research areas, career prospects, and its significance in today's interconnected world.

Understanding the Department of Economics

The department of economics is an academic division within universities and colleges that focuses on teaching and research related to economic theories, models, and applications. It aims to equip students with critical thinking skills, quantitative analysis capabilities, and an understanding of economic principles that influence decision-making at individual, corporate, and governmental levels.

Core Objectives of the Department

- To provide a solid foundation in economic theories and principles
- To develop analytical and quantitative skills for economic analysis
- To foster research and innovation in economic thought
- To prepare students for careers in academia, government, finance, and industry
- To contribute to policy development and societal well-being

Key Components of the Department

- **Undergraduate Programs:** Bachelor's degrees in Economics, often combined with other disciplines
- **Graduate Programs:** Master's and Ph.D. programs focusing on advanced research and specialization
- **Research Centers:** Facilities dedicated to applied research, policy analysis, and economic modeling
- **Faculty:** Professors, researchers, and industry experts who contribute to teaching and scholarly work

Academic Offerings and Specializations

The department of economics offers a range of academic programs designed to cater to diverse interests and career goals. These programs often include core courses, electives, and specialization tracks.

Undergraduate Programs

- Bachelor of Arts (BA) or Bachelor of Science (BS) in Economics
- Combined degrees (e.g., Economics and Political Science, Economics and Business)
- Focus on foundational economic theories, mathematics, and statistics

Graduate Programs

- Master of Economics (ME) or Master of Business Economics
- Ph.D. in Economics for those interested in academic or high-level research careers
- Emphasis on econometrics, microeconomic and macroeconomic theory, and policy analysis

Specializations and Research Areas

- Microeconomics
- Macroeconomics
- Development Economics
- International Economics
- Environmental Economics
- Behavioral Economics
- Public Economics
- Financial Economics
- Health Economics

Research and Impact of the Department of Economics

Research is a cornerstone of the department of economics. Faculty and students often collaborate on projects that influence policy and improve understanding of economic phenomena.

Key Research Areas

- **Economic Development:** Strategies for improving living standards and reducing poverty
- **Public Policy:** Taxation, government spending, and social welfare programs
- **Financial Markets:** Market efficiency, banking stability, and investment analysis
- **Environmental Economics:** Sustainable development and resource management
- **Labor Economics:** Employment, wages, and labor market policies

Impact on Society and Policy

- Informing government policies to foster economic stability and growth
- Providing insights into global trade and financial systems
- Addressing pressing issues such as inequality, climate change, and economic crises
- Supporting development initiatives through empirical research

Career Opportunities for Economics Graduates

Graduates from the department of economics are highly sought after in various sectors due to their analytical skills and understanding of economic systems.

Potential Career Paths

- Economist in government agencies or international organizations
- Financial analyst or investment banker
- Policy advisor or consultant
- Research analyst in think tanks and research institutions
- Academic researcher or university professor
- Data analyst or quantitative analyst in tech firms
- Entrepreneur or business strategist

Skills Developed

- Quantitative and statistical analysis
- Critical thinking and problem-solving
- Data interpretation and economic modeling
- Policy analysis and evaluation
- Effective communication of complex ideas

The Significance of the Department of Economics in Today's World

In an era characterized by rapid technological advancements, globalization, and complex economic challenges, the department of economics holds immense importance.

Addressing Global Challenges

- Climate change and environmental sustainability
- Economic inequality and social justice
- Financial stability and crisis prevention
- Technological disruptions and workforce adaptation

Fostering Innovation and Policy Development

- Utilizing big data and machine learning for economic forecasting
- Designing effective fiscal and monetary policies
- Promoting sustainable economic growth

Enhancing Decision-Making

- Providing governments and businesses with evidence-based insights
- Supporting informed policy-making to improve societal welfare

Conclusion

The department of economics, often described as "economics by," is a vital academic field that combines theoretical knowledge with practical application. Its diverse programs, rigorous research, and societal impact make it an essential component of higher education institutions worldwide. Whether students seek careers in policy, finance, academia, or industry, a solid foundation in economics opens doors to influential and rewarding opportunities. As the world faces ongoing economic uncertainties and transformations, the role of the department of economics remains more relevant than ever, guiding informed decision-making and fostering sustainable development for

future generations.

Department of Economics

Introduction: The Significance of a Robust Economics Department

In the landscape of higher education, the Department of Economics stands as a cornerstone for cultivating analytical thinkers, policy advisors, and innovative researchers. Renowned for its comprehensive curriculum, distinguished faculty, and research output, an economics department not only shapes students' understanding of markets and human behavior but also influences societal and governmental policies globally. As an expert review, this article explores the critical elements that define a top-tier economics department, evaluates its core strengths, and highlights the transformative role it plays in academic and real-world settings.

Core Components of an Exemplary Economics Department

An effective economics department encompasses several fundamental components that together create an environment conducive to academic excellence, research innovation, and student development. These include faculty expertise, curriculum design, research facilities, industry collaboration, and student support services.

Faculty Expertise and Leadership

At the heart of any department lies its faculty. An outstanding economics department boasts a diverse faculty with expertise spanning various subfields such as macroeconomics, microeconomics, econometrics, development economics, behavioral economics, and international economics.

Key attributes include:

- Academic Credentials: Faculty members often hold doctorates from leading institutions, ensuring a high level of scholarship and credibility.
- Research Contributions: Professors actively publish in top-tier journals, influence policy, and participate in renowned conferences.
- Diverse Perspectives: Inclusion of economists from different cultural, geographic, and theoretical backgrounds fosters a richer learning environment.
- Mentorship and Teaching Excellence: Faculty committed to mentoring students and fostering critical thinking are pivotal to student success.

Curriculum Design and Educational Approach

A well-structured curriculum balances foundational theories with contemporary issues, emphasizing both quantitative and qualitative skills.

Features of a comprehensive curriculum:

- Core Courses: Microeconomics, macroeconomics, statistics, and econometrics form the backbone.
- Electives and Specializations: Fields like environmental economics, health economics, financial economics, and behavioral economics allow students to tailor their studies.
- Practical Skills: Emphasis on data analysis, programming (e.g., R, Python), and policy evaluation.
- Interdisciplinary Integration: Courses that intersect with politics, sociology, and technology prepare students for complex real-world problems.

Innovative Teaching Methods:

- Case studies, simulations, and experiential learning.
- Use of online platforms and digital resources.
- Collaborative projects with industry and government agencies.

Research and Innovation Infrastructure

The vitality of an economics department is reflected in its research output and infrastructure.

Essential elements include:

- Research Centers: Specialized institutes focusing on areas such as development studies, fiscal policy, or behavioral science.
- Data Facilities: Access to economic databases (e.g., World Bank, IMF, national statistics), labs, and computational resources.
- Funding and Grants: Active pursuit of research funding from governmental and private sources to foster innovative projects.
- Publication and Dissemination: Encouragement of faculty and students to publish findings, participate in conferences, and influence policy debates.

Impact and Global Recognition

A department's reputation is often gauged by its contribution to academia and society at large.

Leading economics departments influence policy, contribute to economic modeling and forecasting, and produce influential research that shapes national and international strategies.

Research Output and Publications

High-quality research published in peer-reviewed journals advances economic theory and practice. Departments that consistently produce impactful publications tend to attract top students and faculty.

Notable indicators include:

- Number of publications in top-tier journals.
- Citations and academic influence.
- Interdisciplinary collaborations.

Alumni and Industry Connections

Strong industry networks and alumni success stories serve as testimonials to a department's quality.

Alumni roles include:

- Policy advisors at governmental agencies.
- Economists in international organizations like the IMF or World Bank.
- Researchers at think tanks and academia.
- Leaders in finance, consulting, and entrepreneurship.

Special Features of Leading Economics Departments

Some departments distinguish themselves through unique offerings and strategic initiatives.

Interdisciplinary Programs

Integrating economics with data science, political science, public health, or environmental studies prepares students for multifaceted challenges.

Global Engagement and Partnerships

Collaborations with international universities, research institutions, and governmental bodies foster

cross-cultural exchanges and joint research initiatives.

Focus on Policy and Society

Departments emphasizing policy implications and societal impact train students to become change agents.

Activities include:

- Policy labs.
- Consulting projects.
- Public seminars and forums.

Emphasis on Sustainability and Ethics

Incorporating environmental and ethical considerations into economic analysis aligns with global priorities on sustainable development.

Choosing the Right Economics Department: What Prospective Students Should Consider

For students contemplating their academic future, understanding the strengths and focus areas of a department is crucial.

Key considerations:

- Faculty expertise and research interests.
- Curriculum flexibility and specialization options.
- Research opportunities and funding availability.
- Industry and internship partnerships.
- Graduate success rates and employment outcomes.
- International exposure and exchange programs.

Conclusion: The Transformative Power of a Strong Economics Department

In an era marked by rapid technological change, global interconnectedness, and complex economic challenges, a robust Department of Economics serves as a vital engine for knowledge creation and societal progress. Whether through pioneering research, shaping policy, or preparing future leaders,

top-tier departments exert a profound influence that extends well beyond university walls.

Investing in an exceptional economics department is not merely about academic excellence; it is about fostering a deeper understanding of human behavior, societal dynamics, and sustainable development. As stakeholders—students, educators, policymakers, and society at large—recognize its significance, the department's role in shaping a better future becomes ever more essential.

In summary, a distinguished Department of Economics combines expert faculty, innovative curricula, extensive research infrastructure, and societal engagement to produce influential scholars and policymakers. Its impact resonates in the corridors of academia and the corridors of power, making it a pivotal element in addressing the economic challenges of today and tomorrow.

Question What is the primary focus of the Department of Economics? The Department of Economics primarily focuses on studying how individuals, businesses, and governments make choices regarding the allocation of resources, analyzing economic behavior, and understanding market dynamics. **Answer** How does the Department of Economics by university contribute to student career development? It provides students with analytical skills, economic theory knowledge, and practical experience through research and internships, preparing them for careers in finance, policy analysis, consulting, and academia. What are the key courses offered by the Department of Economics? Key courses typically include Microeconomics, Macroeconomics, Econometrics, Development Economics, International Economics, and Public Policy. How does the Department of Economics incorporate current economic trends into its curriculum? It updates its curriculum regularly to include topics like behavioral economics, digital currencies, global trade issues, and sustainability to ensure students are engaged with contemporary economic challenges. What research areas are prominent within the Department of Economics? Prominent research areas include behavioral economics, environmental economics, health economics, development economics, and monetary policy. How can students engage with the Department of Economics beyond coursework? Students can participate in research projects, internships, economics clubs, seminars, and conferences organized by the department to enhance their practical understanding and network with professionals.

Related keywords: economics department, economics courses, economics faculty, economics research, economics programs, economics majors, economics degree, economics faculty list, economics research topics, economics university

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