Yuan Hu

Imperial College London
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EDUCATION

2018 - 2025	Imperial College London
	Ph.D. Economics, Business School
2015 - 2017	London School of Economics
	M.Sc. Economics (two-year programme)
2011 - 2015	Peking University
	Bachelor in Economics, The National School of Development
	Bachelor in Korean Language and Culture, The School of Foreign Languages

REFERENCES

Jonathan Haskel

Department of Economics & Public Policy Imperial College Business School j.haskel@imperial.ac.uk

Esther Boler

Department of Economics & Public Policy Imperial College Business School e.boler@imperial.ac.uk

Saul Estrin

Department of Management London School of Economics s.estrin@lse.ac.uk

Ralf Martin

Department of Economics & Public Policy Imperial College Business School r.martin@imperial.ac.uk

RESEARCH INTERESTS

Economics of Innovation, Green Innovation, Climate Change and Sustainability, Innovation in Emerging Markets, Firm Strategy

JOB MARKET PAPER

Green Technological Change After Natural Disasters: Evidence from Hurricane Katrina Media Coverage: CEPR VoxEU Talk – The next generation: PSE 2024 (https://cepr.org/multimedia/next-generation-pse-2024)

Abstract: Climate change leads to more destructive natural disasters, particularly hurricanes, which can significantly disrupt knowledge production. This paper studies the effects of Hurricane Katrina — one of the costliest and deadliest storms in U.S. history — on inventors' innovation outcomes, including green innovation which helps combat climate change. Using hazard and patent data for U.S. inventors in a difference-in-differences design, I find that Katrina reduced inventors' production of green patents, while non-green patents were unaffected. Specifically, affected inventors could have produced an additional 0.220 green patents following the storm, i.e., a potential 415 percent increase,

had Katrina not occurred. The negative effects are driven by the greater distance in technological expertise (knowledge diversity) among collaborators in green innovation teams, making it harder to substitute for affected inventors and continue their technological tasks. These findings suggest that climate change can disrupt human efforts aimed at addressing its impact, particularly through natural disasters and that knowledge diversity can compromise the resilience of technological development when faced with disruptions.

Publications

[1] Agglomeration Costs Limit Sustainable Innovation in Cities in Developing Economies (with Saul Estrin, Daniel Shapiro and Peng Zhang), *PLOS One*, 2024

Research Summary: Kudos (https://www.growkudos.com/publications/10.1371%25252Fjournal.pone.0308742/reader)

WORKING PAPERS

- [1] Exporting Modes as Learning Strategies: A Penrosian Approach (with Saul Estrin and Lilac Nachum), under review *Journal of Management*
- [2] Individualism and Green Innovation (with Saul Estrin)

WORK IN PROGRESS

- [1] Path Dependency for Inventors? Evidence from Green vs Non-Green Innovation
- [2] The Role of Institutions in Shaping the Relationship Between Agglomeration and Innovation in Emerging Markets (with Saul Estrin, Daniel Shapiro and Peng Zhang)
- [3] GVC Participation as a Venue for Firms' Upgrading? Towards a Theory of Capability Development via Global Integration (with Saul Estrin and Lilac Nachum)

SEMINARS, WORKSHOPS AND CONFERENCES

DEMINARS, WORRSHOTS AND CONFERENCES		
	2025	"Oxford in Varese" 2025 Residence Week for Entrepeneurship Scholars, LBS Transatlantic Doctoral Conference, Barcelona School of Economics Summer Forum, LSE Environment Camp, Northwestern Kellogg (CSSI), Rotterdam School of Management;
	2024	LSE PRINZ/POID seminar, PSE-CEPR Policy Forum 2024, Columbia University Ph.D. Workshop in Sustainable Development, Tenth ZEW/MaCCI Conference on the Economics of Innovation and Patenting, Naples School of Economics: 3rd PhD and Post-Doctoral Workshop, AOM The Organisation of Science PDW, AOM Technology and Innovation Management (TIM) Division Doctoral Student Consortium, AOM Strategic Management (STR) Division Dissertation Consortium: The Job Market and Beyond, DRUID24, 13th Oxford Residence Week for Entrepreneurship Scholars;
	2023	12th Oxford Residence Week for Entrepreneurship Scholars, Imperial College Business School Economics & Public Policy Department Internal Seminar, Essex Paper Development Workshop for Early Career Scholars on Innovation, Technology and R&D Management;
	2022	NBER Entrepreneurship Research Boot Camp, NBER Summer Institute Entrepreneurship, 11th Oxford Residence Week for Entrepreneurship Scholars;

2021 PhD Research Day in Strategy, Entrepreneurship and Innovation organised jointly

by The Business School, City, London Business School and Imperial College Busi-

ness School;

2020 American Economic Association (AEA) Annual Meeting

RESEARCH ASSISTANT

2017 – 2022 London School of Economics

Prof. Saul Estrin

TEACHING ASSISTANT

2022 – 2023 Imperial College Business School

Dr. Sam Asher

Analytics for Applied Economics and Business (MSc Level)

2021 – 2022 Imperial College Business School

Prof. Ralf Martin

Analytics for Applied Economics and Business (MSc Level)

PROFESSIONAL SERVICE

2023 – to date Oxford Residence Week for Entrepreneurship Scholars

Assistant to organisers Prof. Saul Estrin, Prof. Maryann Feldman and Prof. Janet

Bercovitz

HONOURS AND SCHOLARSHIPS

Imperial College Business School

2018 – 2025 Graduate Teaching Assistant Scholarship

LANGUAGES

Chinese (native), English (fluent), Korean (fluent), German (basic)

IT SKILLS

Stata, R, Matlab, Python, LATEX, Microsoft Office