Yuan Hu

Imperial College London South Kensington Campus, London SW7 2AZ, UK Email: y.hu18@imperial.ac.uk Phone: +44 (0) 7421 316769 Website: https://yuan-h-u.github.io

EDUCATION

2018 – to date	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 **Esther Boler** Department of Economics & Public Policy Imperial College Business School j.haskel@imperial.ac.uk e.boler@imperial.ac.uk

Department of Economics & Public Policy Imperial College Business School

Ralf Martin

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

Saul Estrin

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

Research Interests

Economics of Innovation, Environmental Economics, Green Innovation and Sustainability, Development Economics

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.

WORKING PAPERS

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

[2] Exporting Modes as Learning Strategies of African Firms: The Moderating Effect of Absorptive Capacity (with Saul Estrin and Lilac Nachum), under second review *Journal of Management Studies*

WORK IN PROGRESS

[1] Path Dependency for Inventors? Evidence from Green vs Non-Green Innovation

[2] Individualism and Green Innovation (with Saul Estrin)

SEMINARS, WORKSHOPS AND CONFERENCES

2024	LSE PRINZ/POID seminar (scheduled), PSE-CEPR Policy Forum 2024 (Orga- nized by Esther Duflo), Columbia University Ph.D. Workshop in Sustainable De- velopment, 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 Man- agement (TIM) Division Doctoral Student Consortium, AOM Strategic Manage- ment (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, Technol- ogy and R&D Management;
2022	NBER Entrepreneurship Research Boot Camp, NBER Summer Institute En- trepreneurship, 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 – to date	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
2021 - 2022	Imperial College Business School Prof. Ralf Martin
2021 - 2022	

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	
Graduate Teaching Assistant Scholarship	
Peking University	
Hana Financial Group Scholarship	
National Scholarship from The Ministry of Education of China	

LANGUAGES

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

IT Skills

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