

Shuning Ge

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EDUCATION

MIT, Political science department & IDSS, Political Economy & Statistics <i>PhD</i>	Cambridge, US
University of Pennsylvania, School of Engineering and Applied Science, Electrical & Systems Engineering <i>Master's Degree of Engineering GPA 3.9/4.0</i>	Philadelphia, US 08/2018 – present
Tsinghua University, School of Materials Science and Engineering <i>Bachelor's Degree of Engineering Rank: 7/106, double degree in Business Administration and Management</i>	Beijing, China 08/2014-07/2018
Tsinghua University, School of Economics and Management <i>Bachelor's Degree of Business Administration and Management</i>	Beijing, China 09/2015-07/2018

Course taken: Mathematics (calculus, linear algebra, probability, statistics, optimization, simulation), Machine Learning (MIT), Maximum Likelihood, Multi-Level Analysis, Causal Inferences, Advanced physics and chemistry courses, technological innovation & entrepreneurship related course, basic management, economics, and accounting courses

Technical Skills: Python, R, Linux, ArcGIS (QGIS), Latex, Stan, Jags, SQL; Machine learning, Big data, Natural language processing; Work with geo-spatial data, social media data, survey data

Linguistic Skills: Chinese (native), English (fluent), Japanese (intermediate), German (beginner - intermediate)

PROFESSIONAL EXPERIENCE

University of Pennsylvania, Penn Development Research Initiatives <i>Senior Data Research Coordinator</i>	Philadelphia, US 07/2020 – present
<ul style="list-style-type: none">• Work with big data (millions of observations), social media data (Twitter data), geo-spatial data with advanced tools such as ArcGIS, machine learning, natural language processing, etc.• Work on data management (collecting, cleaning, manipulation), data analysis, and visualization in support of PDRI faculty's research, academic projects, PDRI workshops and newsletters• Deeply involved in and proactively contribute to several projects and was promoted as co-author in 3 papers	

PUBLICATIONS AND WORKING PAPERS

Inclusive Refugee-Hosting in Uganda Improves Local Development and Prevents Public Backlash <i>World Bank Working Paper Series</i>	with Guy Grossman (UPenn), Yang-yang Zhou (UBC)
Short / Long-term economic and developmental impacts of Refugees on Host Communities <i>Revise & Resubmit, World Development</i>	with Guy Grossman (UPenn), Yang-yang Zhou (UBC)
The Electoral Consequences of Cellphone Coverage Expansion <i>Under review at American Political Science Review</i>	with Guy Grossman (UPenn) and 3 other collaborators
The Algorithm Commons <i>Thompson, N. C., Ge, S., & Sherry, Y. M. (2021). Building the algorithm commons: Who discovered the algorithms that underpin computing in the modern enterprise? Global Strategy Journal, 11(1), 17-33.</i>	with Neil Thompson (MIT), Yash Sherry (MIT)
The Importance of (Exponentially More) Computing Power <i>Master's Thesis, draft ready to submit to Information Systems Research</i>	with Neil Thompson (MIT), Gabriel F. Manso

RESEARCH EXPERIENCE

Massachusetts Institute of Technology, Computer Science & Artificial Intelligence Lab <i>Research Assistant</i>	Cambridge, US 05/2019 – present
<ul style="list-style-type: none">• Collected, synthesized, and provided analysis of data exhibits for academic journal articles. Provided statistical analysis and design for reports and presentations.• Managed and manipulated data using Python and R. Collaborated in development of new techniques and instruments. Used knowledge of quantitative methods to analyze and interpret experimental results.• Made recommendations to supervisor based on statistical interpretation and independent research. Analyzed, interpreted, and evaluated the quality of results	

ADDITIONAL TRAINING

Inter-university Consortium for Political and Social Research (ICPSR), University of Michigan Bayesian Modeling for Social Sciences (Ryan Bakker), A+; Network Analysis (Anand Edward Sokhey), A; Multilevel Modeling (Mark Manning); Maximum Likelihood Estimation I (Robert N. Lupton)	Virtual due to Covid, US
Workshops, Seminars, and Conferences PDRI Seminars; Applied Economics Workshop (Wharton); Law and Economics Seminar (UPenn); Geospatial analysis for development Symposium and Workshop (CEGA); SAMSI Spring 2021 program on Data Science in the Social and Behavioral Sciences; Difference in difference modern design (about to take in January 2022)	Virtual due to Covid, US