

# Anthony Howell

## Curriculum Vitae

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### Employment and Academic Affiliations

School of Public Affairs, Arizona State University, Phoenix, AZ

2023–Present **Director**, [Center on Technology, Data, & Society](#)

2022–Present **Associate Professor**, Public Policy and Management

2019–2022 Assistant Professor, Public Policy and Management

*ASU Cross-Unit Affiliations:*

2020–Present Faculty Affiliate, [ASU Geographical Sciences & Urban Planning School](#)

2019–Present Senior Sustainability Scientist, [Global Institute of Sustainability](#)

2019–Present Faculty Affiliate, [Spatial Analysis Research Center](#)

School of Economics, Peking University, Beijing, China

2018–2019 Associate Professor, Applied Microeconomics

2014–2018 Assistant Professor, Applied Microeconomics

### Visiting Appointments and Professional Experience

2024 Visiting Research Professor, [Law, Economics, and Management](#), Université Côte d'Azur

2019 Research Fellow, [Economic Research Department](#), Asian Development Bank

2018 Visiting Lecturer, [Economics and Business Administration](#), Chongqing University

2017 Mirzayan S&T Policy Fellow, [Policy and Global Affairs](#), National Academies of Sciences

2013–2014 Visiting Doctoral Student, [School of Economics](#), Peking University

2012–2013 Fulbright Scholar (China), [Lincoln Institute Urban Development](#), Peking University

2011–2013 Research Affiliate, [California Center for Population Research](#), UCLA

2006 Research Fellow, [Geographical Sciences Institute](#), Chinese Academy of Sciences

### Research Funding (External and Internal)

2025–Present Economic Futures Program, *Anthropic*; Role: PI (\$30,000)

2024–Present EAGER, *U.S. National Science Foundation*; Role: Co-PI with Feldman & Lanahan (\$197,000)

2024–2026 *National Research Foundation of South Korea*; Role: Co-PI with Kim (\$116,000)

2019–2024 Intramural, *Arizona State University*; Role: PI (\$93,000)

2016–2019 Early Career Scientist Award, *China National Science Foundation*; Role: PI (\$80,000)

2014–2019 Intramural, *Peking University*; Role: PI (\$70,000)

### Editorial Appointments

2026–Present Editor, *Geographic Methods*, [Annals of the American Association of Geographers](#) (IF: 4.2)

2026–Present Editorial Board Member, [Management and Organization Review](#) (IF: 4.1)

2021–Present Editorial Board Member, [Progress in Economic Geography](#), [Urban Governance](#)

2017–2018 Guest Editor, [Economic Modelling](#)

### Education

2009–2014 Ph.D. Geography, UCLA (Thesis: Agglomeration, Industrial Policy and Firm Performance)

2009–2012 M.S. Statistics, UCLA (Thesis: Statistical Network Analysis of World Trade)

2007–2009 M.S. Geography/GIScience, Michigan State University

2007–2009 B.A. Chinese Language and Culture (equiv.), Michigan State University

2002–2007 B.A. Political Science, Michigan State University

2002–2006 B.A. International Development, Michigan State University

## External Funded Research and Workforce Training

- 2025–Present      **Economic Futures Program, *Anthropic*; Role: PI (\$30,000).**  
– **Project:** Examines how frontier AI adoption reshapes labor demand across U.S. local labor markets, using 120+ million Lightcast job postings to quantify changes in (i) hiring intensity and occupational composition, and (ii) job requirements, including skills, education, and experience. The project develops LLM-assisted measurement pipelines to classify job tasks and requirements at scale, and applies quasi-experimental designs to estimate how AI capability shocks shift demand for different categories of work and worker attributes.  
– **Workforce training:** Supported **one graduate student hire** to build applied skills in (i) large language models for measurement and text classification, and (ii) causal inference for labor-market policy analysis.
- 2024–Present      **NSF EAGER, *U.S. National Science Foundation*; Role: Co-PI with Feldman & Lanahan (\$197,000).**  
– **Project:** Evaluates the socio-economic effects of place-based innovation policy using the U.S. NSF Regional Innovation Engines program as an empirical setting to study local economic restructuring. The research assesses (i) changes in firm dynamics and performance (entry, growth, innovation), (ii) shifts in regional industrial composition and knowledge networks, and (iii) labor-market impacts and spillovers to nearby areas. The project integrates administrative and business microdata with causal inference designs to estimate both direct impacts in funded regions and indirect spillovers in surrounding labor markets.  
– **Workforce training:** Supported **one graduate student hire and one undergraduate hire** to train in policy evaluation, causal inference, and reproducible research workflows using large-scale regional economic data.
- 2024–2026      ***National Research Foundation of South Korea*; Role: Co-PI with Kim (\$116,000).**  
– **Project:** Develops new AI tools for public policy analysis, emphasizing multimodal large language models as measurement instruments to address missing data and limited observability problems in official statistics. The project evaluates whether MLLMs can (i) infer policy-relevant indicators from high-resolution imagery and text sources, (ii) serve as an independent *audit* layer when administrative data are incomplete or delayed, and (iii) support transparent, experimentally validated measurement protocols that quantify uncertainty and bias.  
– **Workforce training:** Trained **two graduate students** in LLM-based measurement, experimental validation designs, and implementation of scalable, ethics-aware computational pipelines for policy monitoring.
- 2016–2019      **Early Career Scientist Award, *China National Science Foundation*; Role: PI (\$80,000).**  
– **Project:** Used large-scale proprietary microdata to estimate how industrial policy and place-based development programs shape firm innovation, productivity, and international competitiveness among Chinese firms. The research examined policy-induced changes in R&D investment, patenting and commercialization, export participation and intensity, and performance heterogeneity across regions and industries, providing evidence on which program designs generate durable competitiveness versus short-run gains.  
– **Workforce training:** Trained **one undergraduate student** in causal analysis methods for policy evaluation.

## Research Overview: Productivity, Impact, Engagement

### Research Productivity

<b>Publications:</b>	36 peer-reviewed articles in 30 unique journals (Avg. IF: 5.9)
<b>Collaboration Network:</b>	37 co-authors: 60% early-career scholars (including 11 graduate students)
<b>Author Contributions:</b>	60% sole-author, 30% lead-author, 10% contributing author
<b>Featured Outlets:</b>	<a href="#">Nature Human Behaviour</a> , <a href="#">Journal of Development Economics</a> , <a href="#">Journal of Urban Economics</a> , <a href="#">Energy Economics</a> , <a href="#">Research Policy</a>
<b>Open-Source Software:</b>	<a href="#">entitymatch</a> – entity matching with semantic embeddings (PyPI)

### Research Impact

<b>Citations:</b>	<a href="#">Google Scholar Profile</a> : 2,100+ total; h-index: 22
<b>Interdisciplinary Reach:</b>	Share of citations by field; top citing journals: <ul style="list-style-type: none"> <li>– Economics/Policy (40%): <i>China Economic Review</i>, <i>Applied Economics</i></li> <li>– Geography/Environment (24%): <i>J. Regional Science</i>, <i>Sustainability</i></li> <li>– Business/Management (22%): <i>Research Policy</i>, <i>Industrial/Corp. Change</i></li> <li>– Other (14%): <i>Annual Review of Sociology</i>, <i>China Quarterly</i></li> </ul>
<b>Policy &amp; Public Reach:</b>	Cited in policy, advocacy, and media outlets, including <ul style="list-style-type: none"> <li>– Policy/research institutions: <i>Brookings</i>, <i>PIIE</i>, <i>NBER</i></li> <li>– Advocacy groups: <i>International Crisis Group</i>, <i>Saferworld</i></li> <li>– Media: <i>Wall Street Journal</i>, <i>The Diplomat</i>, <i>Swiss Broadcasting Corp.</i></li> </ul>
<b>Policy Communication:</b>	Authored invited pieces translating research for policy audiences <ul style="list-style-type: none"> <li>– <a href="#">VoxChina</a> – leading outlet on China’s economy and policy</li> <li>– <a href="#">Tax and Transfer Policy Institute</a> – policy briefs on fiscal policy</li> </ul>

### Global Engagement and Scholarly Visibility

<b>Conferences:</b>	60+ presentations at professional conferences
<b>Geographic Reach:</b>	China/HK (45%), US/Canada (40%), Europe (11%), Asia-Pacific (4%)
<b>Invited Talks:</b>	20+ keynotes and invited seminars <ul style="list-style-type: none"> <li>– Notable venues: University of Chicago, University of Notre Dame, University of Hong Kong, and China Ministry of Education</li> </ul>
<b>Visiting Appointment:</b>	Sponsored Research Fellow, Université Côte d’Azur (Nice, France)

## Research Output

\* Graduate student co-author.

### Open-Source Software

- ▶ [entitymatch](#): Semantic entity matching with geographic blocking and LLM validation. Python package for linking entity records across messy datasets using sentence-transformer embeddings, two-tier geographic blocking, and optional LLM-based validation. [GitHub](#) | [PyPI](#).

### Submitted Manuscripts (Revise and Resubmit)

3. Prud’homme D., **Howell A.**, Duenas M., Campi M., Andrews D., Yoon D. and Park W. “Effects of a Supranational Intellectual Property Institution Reform on Firm Innovation and Commercialization Outcomes”. *Strategic Management Journal* (Revisions Requested). 2025.
2. **Howell A.**, Wang J., Yu L. \*, Melkers J. and Shah V. \*. “[Prestige over Merit: An adapted audit of Large Language Model bias in peer review](#)”. *Scientific Reports* (Revisions Requested). 2025.

1. **Howell A.** “Agglomeration disruption, firm innovation, and export resilience: Evidence from a place-based policy shock”. *Regional Science and Urban Economics* (Revisions Requested). 2025.

### Submitted Manuscripts (Under Review)

2. **Howell A.** “State-Led Industrial Relocation, Export Competitiveness, and Spatial Inequality”. Under Review. 2025.
1. **Howell A.** “To adapt in place or space: Local ethnic ventures, climate mobility and the role of a guaranteed minimum income in China”. Under Review. 2025.

### Works in Progress

2. **Howell A.** “Transformative AI and Jobs: New Measures and Evidence”. Work in Progress. 2025.
1. **Howell A.** “Local Labor Market Effects of Artificial Intelligence”. Work in Progress. 2025.

### Published Articles

36. **Howell A.**, Wang N.<sup>\*</sup>, Bagchi-Sen S. and Kim Y. “From Pixels to Urban Policy-Intelligence: Recovering Legacy Effects of Redlining with a Multimodal Large Language Model”. In: *npj Urban Sustainability* (**IF: 8.8**) (Forthcoming) (2026).
35. Mughan S., Singla A. and **Howell A.** “Foreign Buyer Taxes in New South Wales”. In: (2026). *Public Budgeting & Finance* (Forthcoming).
34. Berg A.<sup>\*</sup>, **Howell A.** and Bagchi-Sen S. “Local Labor Market Dynamics, Ethnic Migration and Income Disparities in a U.S. Metropolitan Workforce”. In: *Journal of Economic Geography* (**IF: 4.5**) (2025).
33. **Howell A.** “Cash transfers, ethnicity and the household energy poverty gap in rural China”. In: *Energy Economics* (**IF: 14.2**) (2025).
32. **Howell A.** “Rural road stimulus and the role of matching mandates on economic recovery in China”. In: *Journal of Development Economics* (**IF: 4.6**) (2024).
  - *Science Communications*: Policy summary available at [VoxChina](#)
31. **Howell A.** “Spatioethnic Household Carbon Footprints in China and the Equity Implications of Climate Mitigation Policy: A Machine Learning Approach”. In: *Annals of the American Association of Geographers* (**IF: 4.2**) (2024).
30. **Howell A.**, Mughan S. and Singla A. “Heterogeneous effects of a foreign buyer tax on house prices in New South Wales”. In: *Journal of Economic Geography* (**IF: 4.5**) (2024).
  - *Science Communications*: Policy summary available at [Austaxpolicy](#)
29. Caldarulo M.<sup>\*</sup>, Mossberger K. and **Howell A.** “Broadband Adoption and Student Academic Achievement”. In: *Telecommunications Policy* (**IF: 6.4**) (2023).
28. **Howell A.**, Li R. G.<sup>\*</sup>, Bagchi-Sen S. and Lobo J. “Disentangling agglomeration economies from selection under policy distortions in China”. In: *Regional Studies* (**IF: 5.1**) (2023).
27. **Howell A.** “Impact of a Guaranteed Minimum Income Program on Rural-Urban Migration in China”. In: *Journal of Economic Geography* (**IF: 4.5**) (2022).

26. **Howell A.** "Socio-economic impacts of scaling back a massive payments for ecosystem services program in China". In: *Nature Human Behaviour* (**IF: 19.7**) (2022).
25. **Howell A.**, Li R. G.\* , Feldman M. and Qian H. "Agglomeration, Recombinant Innovation and Market Reforms in China". In: *Economics of Innovation and New Technology* (**IF: 3.3**) (2022).
24. Boeing P., Eberle J.\* and **Howell A.** "The impact of China's R&D subsidies on R&D investment, technological upgrading and economic growth". In: *Technological Forecasting and Social Change* (**IF: 13.3**) 166 (2021).
23. Singla A., Mughan S. and **Howell A.** "The Effects of the COVID-19 Crisis on the City of Phoenix's Budget and Creditworthiness". In: *Municipal Finance Journal* (2021).
22. **Howell A.** "Minimum Wage Impacts on Han-Minority Workers' Wage Distribution and Inequality in Urban China". In: *Journal of Urban Economics* (**IF: 4.8**) 115 (2020).
21. **Howell A.** "Picking 'Winners in Space:' Impact of Local Industrial Support Policy on Firm Productivity in China". In: *Journal of Regional Science* (**IF: 2.7**) 60 (2020).
20. **Howell A.**, Liu C. and Yang R. "Impact of China's Economic and Development Zone Program on Selection and Agglomeration Economies". In: *Environment and Planning A: Economy and Space* (**IF: 4.4**) 52 (2020).
19. **Howell A.**, Worack S.\* and Jia L.\*. "Going out to innovate more at home: Impacts of outward direct investments on Chinese firms' domestic innovation performance". In: *China Economic Review* (**IF: 5.5**) 60 (2020).
18. **Howell A.** "Agglomeration, Absorptive Capacity and Knowledge Governance: Implications for Public-Private Firm Innovation in China". In: *Regional Studies* (**IF: 5.1**) 53.7 (2019).
17. **Howell A.** "Clustering Effects on Firm Exporting with Productivity-Enhancing R&D in China". In: *The World Economy* (**IF: 2.4**) 42.10 (2019).
16. **Howell A.** "Heterogeneous Impacts of China's Economic and Development Zone Program". In: *Journal of Regional Science* (**IF: 2.7**) 59.4 (2019).
15. **Howell A.** "Industry Relatedness, FDI Liberalization and the Indigenous Innovation Process in China". In: *Regional Studies* (**IF: 5.1**) 54.2 (2019).
14. **Howell A.** "Relatedness Economies, Absorptive Capacity and Economic Catch-up: Firm-Level Evidence from China". In: *Industrial and Corporate Change* (**IF: 3.0**) 28.3 (2019).
13. **Howell A.** "Ethnic Entrepreneurship, Initial Financing, and Business Performance in China". In: *Small Business Economics* (**IF: 7.9**) 52.3 (2018).
12. **Howell A.**, He C., Yang R. and Fan C. "Agglomeration, (Un)-Related Variety and New Firm Survival in China: Do Local Subsidies Matter?" In: *Papers in Regional Science* (**IF: 2.3**) 97.2 (2018).
11. **Howell A.** and Yang L. "Turning Points in the Chinese Civil War". In: *Australian Economic History Review* 59.3 (2018).
10. **Howell A.** "Impacts of Migration and Remittances on Ethnic Income Inequality in Rural China". In: *World Development* (**IF: 4.8**) 94 (2017).
9. **Howell A.** "Marshallian Sources of Relatedness and their Effects on Firm Survival and Subsequent Success in China". In: *Economic Geography* (**IF: 8.4**) 93.4 (2017).
8. **Howell A.** "Picking 'Winners' in China: Do Subsidies Matter for Indigenous Innovation and Firm Productivity?" In: *China Economic Review* (**IF: 5.5**) 44 (2017).

7. **Howell A.** "Firm R&D, Innovation and Easing Financial Constraints in China: Does Corporate Tax Reform Matter?" In: *Research Policy* (**IF: 8.0**) 45 (2016).
6. **Howell A.**, He C., Yang R. and Fan C. "Technological Relatedness and Asymmetrical Firm Productivity Gains Under Market Reforms in China". In: *Cambridge Journal of Regions, Economy and Society* (**IF: 5.7**) 9.3 (2016).
5. **Howell A.** "'Indigenous' Innovation with Heterogeneous Risk and New Firm Survival in a Transitioning Chinese Economy". In: *Research Policy* (**IF: 8.0**) 44 (2015).
4. **Howell A.** "Chinese Minority Income Disparity in Urumqi: An Analysis of Han-Uyghur Labour Market Outcomes in the Formal and Informal Economies". In: *China: An International Journal* 11 (2013).
3. **Howell A.** "Is Geography Dead or Destiny in a Globalizing World? A Network Analysis and Latent Space Modeling Approach of the World Trade Network". In: *Journal of Globalization Studies* 4 (2013).
2. **Howell A.** "Labor Market Segmentation in Urumqi, Xinjiang: Exposing Labor Market Segments and Testing the Relationship between Migration and Segmentation". In: *Growth and Change* (**IF: 2.1**) 42.2 (2011).
1. **Howell A.** and Fan C. "Migration and Inequality in Xinjiang: A Survey of Han and Uyghur Migrants in Urumqi". In: *Eurasian Geography and Economics* (**IF: 2.5**) 52.1 (2011).

### Book Chapters

2. **Howell A.** "Chinese Innovation and Firm Performance: A Structural Approach with Spillovers". In: *Avoiding the Middle-Income Trap in Asia: The Role of Trade, Manufacturing, and Finance*. Ed. by P. Morgan, G. Wan and B. Huang. Asian Development Bank, 2018.
1. **Howell A.**, Gustaffson B. and Ding S. "Investigating the Patterns and Determinants of Han and Ethnic Minority Household Migration in China". In: *Ethnicity and Inequality in China*. Ed. by B. Gustaffson, S. Ding and R. Hazmath. Routledge, 2017.

## Invited Talks and Conference Presentations

### Invited Seminars and Keynotes

Year	Type	Institution
2025–2026	Seminar	Eira Initiative, U.C. Berkeley Policy Institute
2025–2026	Seminar	GeoAI Workshop, Arizona State University (SPARC, GSUPP)
2025–2026	Seminar	Creighton University (Business Economics)
2024–2025	International Forum	China Ministry of Education
2024–2025	International Forum	Chinese University of Hong Kong (Economics)
2024–2025	Seminar	University of Macau (Business Administration)
2023–2024	Seminar	University of Notre Dame (Public Policy)
2023–2024	Keynote	Université Côte d'Azur (KID Summer School)
2023–2024	Seminar	Université Côte d'Azur (Law, Economics, and Management)
2019–2020	Seminar	University of Chicago (Spatial Data Science)
2019–2020	Seminar	Arizona State University (Geography)
2018–2019	Seminar	University of North Carolina (Public Policy)
2018–2019	Seminar	Hong Kong University of Science and Technology (Public Policy)
2018–2019	Seminar	Rutgers University (Planning/Policy)
2018–2019	Seminar	University of Arizona (Geography/Development)
2018–2019	Seminar	Hong Kong University (Sociology/Geography)
2018–2019	Seminar	University of Toronto (Management)
2018–2019	Seminar	Arizona State University (Public Affairs)
2017–2018	Keynote	Southwest University of Finance & Economics (Spatial Economics)
2017–2018	Seminar	Rutgers University (Agricultural Economics)

### Conference Presentations

#### 2025–2026

- ▶ American Association of Geographers
- ▶ 13th Conference on Asia and Pacific Economies

#### 2024–2025

- ▶ Computational Methods in Entrepreneurship and Innovation, UCLA Anderson
- ▶ 10th Conference on Science and Innovation Policy, Georgia Tech
- ▶ Winter Business Economics Conference
- ▶ North American Regional Science Conference

#### 2023–2024

- ▶ American Association of Geographers
- ▶ Regional Science Association
- ▶ DRUID

#### 2022–2023

- ▶ North American Regional Science Conference
- ▶ American Association of Geographers
- ▶ Association for Public Policy Analysis & Management

**2021–2022**

- ▶ North American Regional Science Conference
- ▶ Association for Public Policy Analysis & Management
- ▶ American Association of Geographers

**2020–2021**

- ▶ North American Regional Science
- ▶ Association for Public Policy Analysis & Management

**2019–2020**

- ▶ North American Regional Science
- ▶ American Association of Geographers

**2018–2019**

- ▶ YSI Economic Complexity Workshop (Massachusetts Institute of Technology)
- ▶ Global Regional Science Association
- ▶ Innovation Studies (Tsinghua University)

**2017–2018**

- ▶ North American Chinese Economists Society
- ▶ 44th Annual Eastern Economic Conference (Boston)
- ▶ 9th Symposium on Human Capital and Labor Markets (Central University of Finance and Economics)
- ▶ Finance, Innovation and Green Growth (Seoul National University)
- ▶ China Development Studies (Shanghai Jiao Tong University)

**2016–2017**

- ▶ Entrepreneurship, Innovation and Development (Peking University)
- ▶ The 8th Symposium on Human Capital and Labor Markets (Central University of Finance and Economics)
- ▶ Pacific Trade and Development Conference (Canberra)
- ▶ International Entrepreneurship (Peking University)
- ▶ China's Minimum Wage Policy (Beijing Normal University)
- ▶ Innovation Studies (Tsinghua University)
- ▶ The 18th NBER-CCER (Peking University)
- ▶ NBER Chinese Economy (University of Hong Kong-Shenzhen)
- ▶ Chinese Development (Southwest University of Finance and Economics)
- ▶ American Economic Association Annual Meeting (San Francisco)

**2015–2016**

- ▶ Chinese Economy (Tsinghua University)
- ▶ 6th Human Capital and Labor Markets (Central University of Finance and Economics)
- ▶ PRC Growth Slowdown for Asia (Asian Development Bank Institute)

- ▶ Escaping the Middle-income Trap (Asian Development Bank Institute)
- ▶ Evolutionary Economic Geography (Peking University)
- ▶ Urban Development in China (Xi'an Jiaotong-Liverpool University)
- ▶ China Development (Shanghai University)
- ▶ Western China Development (Southwest University)
- ▶ China Economics Society (Chongqing University)

#### 2014–2015

- ▶ Chinese Economy (Tsinghua University)
- ▶ Poverty Reduction in West China (Yunnan Agricultural University)
- ▶ China Household Ethnic Survey (China Academy of Social Sciences)
- ▶ Financial Globalization, Trade and Development (Bordeaux, France)
- ▶ Crossing Borders: Immigration and Race in Perspective (Sciences Po, Paris)
- ▶ Institute of New Economic Thinking, Young Scholar Initiative (University of Toronto)
- ▶ Summer School in Development Economics (Ascea, Italy)
- ▶ Summer Institute of Economic Geography (Frankfurt, Germany)

#### 2013–2014

- ▶ Western China Development (Central University for Nationalities)
- ▶ International Conference on China (Sun-Yat Sen University)
- ▶ American Association of Geographers
- ▶ Regional, Urban, and Spatial Economics (Beijing, China)

## Other Funding and Awards

2024	Global Futures Lab Seed Grant, ASU, \$15,000
2023	Institute for Social Science Research Seed Grant, ASU, \$7,500
2022	Watts College Seed Grant, ASU, \$15,000
2019	Sir Timothy Coghlan Prize (Best Paper in Australian Economic History Review)
2018	Best Conference Paper Award, <i>Conference on Innovation Studies, Tsinghua University</i>
2018	Young Researcher's Prize (Finalist), <i>RSAI</i>
2018	Gregory Chow Best Paper (Finalist), <i>CES</i>
2017	The Peter Nijkamp Award, <i>RSAI</i>
2017	Analytics/Policy Migration Program Fellow, <i>Georgetown University</i>
2016	PAFTAD Fellow, <i>East Asia Bureau of Economic Research</i>
2014	Young Scholars Initiative Grantee, <i>INET</i>
2014-2019	China Foreign Expert, <i>SAFE</i>
2012-2013	FLAS Fellowship - Mandarin, <i>U.S. Dept. of Education</i> , \$20,000
2010-2011	FLAS Fellowship - Mandarin, <i>U.S. Dept. of Education</i> , \$20,000
2010	Research Mentorship Award, <i>UCLA Graduate Division</i>
2010	Summer FLAS Fellowship - Mandarin, <i>U.S. Dept. of Education</i> , \$8,500
2009-2010	Chancellor's Award for Top 1% of incoming PhDs, <i>UCLA</i> , \$10,000
2009	CLS - Mandarin, <i>U.S. Dept. of State</i> , \$6,500
2008;2009	Summer FLAS Fellowship - Mandarin, <i>U.S. Dept. of Education</i> , \$8,500
2009	Graduate Student Paper Award, <i>AAG, China Geography Specialty Groups</i>
2009	Graduate Student Paper Award, <i>AAG, Asia Geography Specialty Group</i>
2009	Research Enhancement Grant, <i>MSU Grad School</i>
2008	Summer FLAS Fellowship - Mandarin, <i>U.S. Dept. of Education</i> , \$8,500
2008	Fieldwork Grant, <i>Xinjiang University, China, MSU</i> .
2007-2009	Graduate Assistantship, <i>Dept. of Residence Life, MSU</i>
2007-2009	FLAS Fellowship - Mandarin, <i>U.S. Dept. of Education</i> , \$40,000
2007	A.J Harris Fieldwork Scholarship, <i>Dept. of Political Science, MSU</i> , \$5,000
2007	Homer Higby International Service Award, <i>MSU</i> , \$5,000
2007	National Merit Societies: Phi Beta Kappa, Mortar Board, Phi Beta Delta
2006	Community Foundation's Volunteerism Award, <i>City of Lansing</i>

## Submitted Applications (Unsuccessful)

2025	Jefferson Science Fellowship, <i>National Academies of Sciences</i> , Finalist (Program Suspended)
2025	Fulbright Distinguished Chair Award (RMIT), Finalist
2025	International Affairs Fellowship, <i>Council on Foreign Relations</i> , Finalist
2024	Digital Equity Grant, <i>U.S. Department of Commerce</i> , Co-PI \$12,000,000 Requested
2025	Standard Grant, <i>National Science Foundation</i> , PI: \$297,000 Requested
2024	Fulbright-Tocqueville Distinguished Chair Award, Finalist
2023	Sloan Foundation, PI: \$50,000 Requested
2023	ASU Planet Seed Grant, PI: \$40,000 Requested
2022	Standard Grant, <i>National Science Foundation</i> , PI: \$937,192 Requested
2021	Standard Grant, <i>National Science Foundation</i> , PI: \$197,887 Requested
2020	Early Career Award, <i>Upjohn Institute</i> , PI: \$20,000 Requested
2019	CAREER, <i>National Science Foundation</i> , PI: \$481,712 Requested
2019	China Fellowship, <i>Lincoln Institute of Land Policy</i> , PI: \$25,000 Requested
2018	Inequality-Migration Nexus, <i>Volkswagen Foundation</i> , Co-PI: \$255,188 Requested
2017	<i>International Development Research Centre</i> , PI: \$55,301 Requested
2017	China Fellowship, <i>Lincoln Institute of Land Policy</i> , PI: \$25,000 Requested
2017	Transregional Research Fellowship (Finalist) <i>Social Science Research Council</i>
2015	Exploratory Grants, <i>PEDL-CEPR</i> , PI: \$55,000 Requested

## Teaching and Mentoring

### Teaching Portfolio Summary

**New Preps:** 9 distinct courses (first time teaching and preparations)  
**Students Taught:** 1000+ total  
**Course Topics:** Quantitative methods; Economic Geography/Globalization; China Economy

### Course Development and Pedagogical Innovation

**Redesigns:** 4 major redesign iterations (substantive course overhaul)  
**New Builds:** 3 new courses built from scratch  
**Notable Innovations:** Integration of theory, empirics, technology, and replication  
 – PAF 609 (S25): Integrated AI tools for simulation and learning  
 – PAF 609 (S23): Built weekly labs with full published paper replications  
 – PAF 516/CPP 529 (F2019): Real community data practicum with GitHub

### Teaching Effectiveness

**ASU Evaluations:** Overall instructor enthusiasm mean: 4.4/5.0  
**PKU Evaluations:** Overall course mean: 92.6/100  
**Student Feedback:** Selected comments from course evaluations:  
*“This was the only class where students were truly collaborating to learn about AI integration into quantitative analysis.”* (PAF 609, S25)  
*“Made learning fun and easy to understand... a true experience.”* (PAF 301, F23)  
*“By far the best professor I have had at ASU.”* (PAF 301, F20)

### Courses Taught at Arizona State University (2019–2026)

Course	Level	Role	Description
PAF 609	Doctoral	Associate	Advanced Quantitative Methods ( <a href="#">Syllabus</a> )
PAF 510	Masters	Associate	Foundations of Program Evaluation I
PAF 502	Masters	Associate	Public Service Research II
PAF 516/CPP 529	Masters	Assistant	Community Analytics ( <a href="#">Syllabus</a> )
PAF 301	Undergraduate	Assistant	Applied Statistics ( <a href="#">Syllabus</a> )

### Courses Taught at Peking University (2014–2019)

Course	Level	Description
Econ. 461: Economic Geography	Undergraduate	Self-designed ( <a href="#">Syllabus</a> )
Econ. 471: Data Science and Network Analysis	Undergraduate	Self-designed ( <a href="#">Syllabus</a> )
Econ. 481: The Next China and the Global Economy	Undergraduate	Self-designed
Econ. 511 Trade & Finance Globalization	Graduate	Self-designed

### Teaching Awards

#### 2023 **Professor of Impact Award**, Arizona State University

Student-nominated recognition for PAF 609 (Advanced Quantitative Methods). Recognized for “being a great mentor, inspiring the class, spending extra time helping students, making a positive impact, understanding that life happens and being flexible with students, treating students with respect, and motivating students to overcome a challenge.”

#### 2014 **2nd Place Teaching Prize**, Peking University

University-wide competition for new first-year faculty. Awarded for undergraduate course in Economic Geography at China’s flagship institution.

### Student Mentoring and Advising

**ASU PhD Advising:** 1 Dissertation Co-Chair; 5 Dissertation Committee Memberships  
**ASU Student Mentoring:** Graduate students: 6 total in RA/GSA roles  
 – Watts/ASU Research Program for Underrepresented Minorities  
**PKU Student Mentoring:** 4 thesis committee memberships; 2 undergraduate research mentees

#### ASU Student Mentoring and Advising

##### ▶ **PhD Advising and Dissertation Committees**

2022–present	Shaika Lamia Islam	Dissertation Committee Member
2022–present	Jinghua Ma	Dissertation Committee Member
2021–present	Clement Damoah	Dissertation Committee Member
2020–2025	Meredith McCullough	Dissertation Co-Chair
2020–2025	Guohuabin Li	Dissertation Committee Member
2019–2024	Chan Wang	Dissertation Committee Member

##### ▶ **Graduate Student GSA/GSR Mentoring**

2026	Ginger Cates	Graduate Student Associate
2025–2026	Vishnu Kalidas	Graduate Student Researcher
2024–2025	Varshil Shaw	Graduate Student Researcher
2024	Nicholas McMullen	Graduate Student Associate
2020–2021	Guohuabin Li	Graduate Student Researcher
2019–2020	Ji Eun Kim	Graduate Student Researcher

##### ▶ **Undergraduate Student Mentoring**

2021–2022	Sebastian Aleman	Research Program for Underrepresented Minority Students
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#### PKU Student Mentoring and Advising

##### ▶ **Thesis Committees and Graduate Advising**

2019	Hanxiao Zhou	Thesis Committee Member
2018	Aarthee Salvaraja	Thesis Committee Member
2017	Tan Qi	Thesis Committee Member
2016	Chaofan Jiao	Thesis Committee Member

##### ▶ **Undergraduate Student Mentoring**

2018–2019	Undergraduate Research Mentee (PKU)	Independent research mentoring
2016–2017	Undergraduate Research Mentee (PKU)	Independent research mentoring

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↓ Continue to Service ↓

## Service: Disciplinary Leadership, Faculty Governance, and Peer Review

### Service Portfolio Summary

<b>Editorial Leadership:</b>	Editor (Geographic Methods), <i>Annals of the AAG</i> (Flagship journal)
<b>Research Center Leadership:</b>	Director, Center on Technology, Data, & Society (2023–Present)
<b>Faculty Hiring:</b>	7 ASU faculty searches (2 chair/co-chair) + 2 PKU searches
<b>Curriculum/Governance:</b>	Program committees (PEDA; MPA/MPP; undergraduate)
<b>Evaluation &amp; Peer Review:</b>	150+ journal reviews; 10+ grant panels; 5+ external P&T reviews
<b>National Policy Service:</b>	Mirzayan S&T Policy Fellow, National Academies (2017)

### Editorial and Disciplinary Leadership

<b>Editorial Appointments:</b>	1 editorship; 3 editorial board memberships Editor, <i>Geographic Methods</i> , <i>Annals of the AAG</i> (2026–) Editorial Board Member, <i>Management and Organization Review</i> (2026–) Editorial Board Member, <i>Progress in Economic Geography</i> (2021–) Editorial Board Member, <i>Urban Governance</i> (2021–) Guest Editor, <i>Economic Modelling</i> (2017–2018)
<b>Professional Leadership:</b>	American Association of Geographers (AAG) Chair, China Geography Specialty Group (2023–2024) Vice Chair, China Geography Specialty Group (2022–2023) Treasurer, China Geography Specialty Group (2021–2022) Board Member, Economic Geography Specialty Group (2018–2020)

### Institutional Leadership and Governance

<b>Research Center:</b>	Director, Center on Technology, Data, & Society (2023–Present) – Grew external funding by 80% (NSF, South Korea NRF) – Expanded faculty/student affiliates by 30%
<b>Faculty Searches:</b>	9 total search committees (2 as chair/co-chair)
<b>Curriculum/Program:</b>	Committee service across graduate and undergraduate programs PEDA Curriculum Update (2024–2025) MPA/MPP Master’s Committee (2022–2025) Undergraduate Committee (2019–2022)

## Research Center Leadership

### Director for the Center on Technology, Data, and Society (2023–Present)

- ▶ **Secure Research Funding:** Led initiatives to grow funding by 80%, securing grants from the U.S. National Science Foundation and South Korea’s National Research Foundation.
- ▶ **Student Hiring and Training:** Recruited and trained student affiliates, providing hands-on experience in research projects, data analysis, and policy evaluation.
- ▶ **Affiliate Expansion:** Increased the number of faculty and student affiliates by 30%, promoting the center’s growth and visibility.
- ▶ **International Collaborations:** Hosted workshops with 50+ attendees spanning disciplines in computer science, engineering, public policy, and economics.
- ▶ **Engagement with Policy Practitioners:** Hosted and collaborated with international visitors, including officials from South Korea’s Ministry of Education and Ministry of Environment.
- ▶ **Student Mentorship:** Advised and met regularly with PhD student affiliates, fostering academic and professional growth.

- ▶ **Seminar Series:** Organized research seminars, enhancing interdisciplinary collaboration and knowledge exchange.
- ▶ **Leadership Engagement:** Attended Center Director Meetings with SPA Leadership, contributing to strategic planning and center development.

## Institutional Service

### School of Public Affairs, Watts College and Arizona State University

- ▶ **Search Committees (Chair/Co-Chair):**
  - 2024–2025: Chair - HAITC/SPA Assistant Professor (Public Affairs)
  - 2021–2022: Co-Chair - HAITC/SPA Assistant Professor (Public Affairs)
- ▶ **Search Committees (Member):**
  - 2023–2024: Member - Assistant Professor (Public Affairs)
  - 2023–2024: Member - Assistant Professor (Emergency Management)
  - 2021–2022: Member - Endowed Chair (Public Policy)
  - 2020–2021: Member - HAITC/SPA Assistant Professor (Public Affairs)
  - 2019–2020: Member - Neely Visiting Professor
- ▶ **Committee Assignments:**
  - 2025–2026: Member - PEDAs Master's Curriculum Update Committee
  - 2025–2026: Member - MPA/MPP Master's Committee
  - 2024–2025: Member - PEDAs Master's Curriculum Update Committee
  - 2024–2025: Member - MPA/MPP Master's Committee
  - 2023–2024: Member - MPA/MPP Master's Committee
  - 2022–2023: Member - MPA/MPP Master's Committee
  - 2021–2022: Member - Undergraduate Committee
  - 2020–2021: Member - Undergraduate Committee
  - 2019–2020: Member - Undergraduate Committee
- ▶ **Watts Ambassador to ASU's Julie Ann Wrigley Global Futures Laboratory:**
  - 2022–Present: Facilitate engagement between GFL and the Watts College community.
- ▶ **Covid-19 Response Survey, Maryvale, Phoenix, Watts College One-Square Mile Initiative:**
  - 2020–2021: Co-designed and administered separate surveys for local schools and public housing to assess student and community challenges and responses to COVID-19 lockdowns.

## Service to the Academy

### Editorial Appointments

- 2026–Present **Editor, [Geographic Methods](#), [Annals of the American Association of Geographers](#)**
  - Fielding approximately 15-20 submissions per month in cutting-edge research at the intersection of spatial statistics, computational social science, and geographic artificial intelligence.
- 2026–Present **Editorial Board Member, [Management and Organization Review](#)**
  - Reviewing papers related to firm innovation and productivity.
- 2021–Present **Editorial Board Member, [Progress in Economic Geography](#)**
  - Reviewing papers in quantitative economic geography, urban development, and regional innovation.
- 2021–Present **Editorial Board Member, [Urban Governance](#)**
  - Reviewing papers on local governance and urban development, particularly in the China context.
- 2017–2018 **Guest Editor, [Economic Modelling](#)**

Professional Leadership – American Association of Geographers

- 2023–2024 **Chair**, China Geography Specialty Group  
– Promoted intellectual activities throughout the year; organized panel sessions featuring keynote speakers at the annual AAG conference.
- 2022–2023 **Vice Chair**, China Geography Specialty Group  
– Nominated graduate students for best paper awards.
- 2021–2022 **Treasurer**, China Geography Specialty Group  
– Managed budgetary expenditures for specialty group activities.
- 2018–2020 **Board Member**, Economic Geography Specialty Group  
– Nominated graduate students for best paper awards; organized panels at the annual AAG conference.

Grant Evaluation

Conducted more than 10 reviews across 3 national funding agencies:

- ▶ National Science Foundation, Panelist
- ▶ National Natural Science Foundation of China, Panelist
- ▶ Research Grants Council of Hong Kong, Panelist

Promotion & Tenure Evaluations

Served as external reviewer for promotion and tenure cases (Assistant to Tenured Associate Professor) at top-ranked institutions in the United States and China:

- ▶ Florida International University
- ▶ Jinan University
- ▶ Shanghai University of Finance and Economics
- ▶ University of Macau

Journal Reviewer

Conducted more than 150 reviews across nearly 40 journals spanning multiple fields and disciplines:

- ▶ **General Science:** *Proceedings of the National Academy of Sciences, Scientific Reports*
- ▶ **Geography/Sustainability & Urban/Regional Studies:** *Annals of the American Association of Geographers, Applied Geography, Cities, Environment & Planning A, Eurasian Geography & Economics, Growth & Change, International Regional Science Review, Journal of Cleaner Production, Journal of Economic Geography, Journal of Regional Science, Papers in Regional Science, Professional Geographer, Regional Studies, Regional Science & Urban Economics, Urban Affairs Review, Urban Studies, Sustainability, World Development*
- ▶ **Economics & Public Policy:** *American Journal of Agricultural Economics, China Economic Review, Emerging Markets Finance & Trade, Energy Economics, Journal of Applied Economics, Journal of Development Studies, Journal of Economic Behavior & Organization, Journal of Environmental Economics & Management, Journal of Public Economics, Journal of Urban Economics, Review of Economics of the Household*
- ▶ **Innovation, Management, & Entrepreneurship:** *Economics of Innovation & New Technology, Industrial & Corporate Change, Journal of Technology Transfer, Research Policy, Strategic Management Journal*