

Anthony Howell

Curriculum Vitae

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Address: ASU School of Public Affairs
411 N. Central Avenue
Phoenix, AZ 85004

Email: Anthony.Howell@asu.edu

Website: AnthonyHowell.netlify

Employment

School of Public Affairs, Arizona State University, Tempe/Phoenix

- 2023- Director, [Center on Technology, Data, & Society](#)
- 2022- Associate Professor, Public Policy and Management
- 2019-2022 Assistant Professor, Public Policy and Management

School of Economics, Peking University, Beijing

- 2014-2019 Assistant (Promoted to Associate) Professor, Applied Microeconomics

Other Academic Affiliations

- 2021- Faculty Affiliate, [Science, Tech & Environment Policy Center](#), ASU
- 2020- Faculty Affiliate, [Geographical Sciences & Urban Planning School](#), ASU
- 2019- Senior Sustainability Scientist, [Global Institute of Sustainability](#), ASU
- 2019- Faculty Affiliate, [Spatial Analysis Research Center](#), ASU

Visiting Positions (In-Residence)

- 2024 Visiting Professor, [Law, Economics and Management](#), Université Côte d'Azur, Nice
- 2018 Research Fellow, [Asian Development Bank](#), Manila
- 2017 Mirzayan S&T Policy Fellow, [National Academies of Sciences](#), Washington DC
- 2013-2014 Research Affiliate, [California Center for Population Research](#), Los Angeles
- 2012-2013 Fulbright Scholar, [PKU-Lincoln Institute Urban Development](#), Beijing
- 2006 Research Experience for Undergraduates, [Chinese Academy of Sciences](#), Beijing

Research Funding

- 2024- [EAGER](#): U.S. National Science Foundation (co-PI: Howell; PI: Feldman, \$197,000)
- 2024- National Research Foundation of South Korea (co-PI: Howell; PI: Kim, \$116,000)
- 2019-2024 Intramural, Arizona State University (PI: \$93,000)
- 2016-2019 Early Career, National Natural Science Foundation of China (PI: Howell, \$60,000)
- 2014-2019 Intramural, Peking University (PI: \$50,000)

Research Overview

- ▶ [Google Scholar](#): 1,500+ Citations; 20+ h-index; 22+ i10-index
- ▶ Publications (30+): 60% Sole-author; 30% Lead Co-author; 15+ Co-authors
- ▶ Research Areas: Public Policy, Economic Development, Innovation, Entrepreneurship, China
- ▶ Featured Pubs: [Nature-HB](#), [Development Economics](#), [ResPol](#), [Annals-AAG](#), [Urban Economics](#)

Editorial Positions

- 2021- Editorial Board Member: [Progress in Economic Geography](#); [Urban Governance](#)
- 2018 Guest Co-editor: [Economic Modeling](#)

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, MSU
- 2007-2009 B.A. Chinese Language and Culture (equiv.), MSU
- 2002-2007 B.A. Political Science, MSU
- 2002-2006 B.A. International Development, MSU

Working Papers

- [6] **Howell, A.** (2024). To adapt in place or space: Local ethnic ventures, climate mobility and the role of a guaranteed minimum income in China. (*R&R World Development*).
- [5] **Howell, A.** (2024). A guaranteed minimum income, ethnicity and household energy poverty in China: Implications for the environment. (*R&R Energy Economics*).
- [4] **Howell, A.** (2024) Impacts of Ending Economic Development Zones on Firm Innovation, Productivity and Internationalization. (*Submitted*).
- [3] **Howell, A.** (2024) Implications of War on Land Conservation Efforts: Deep Learning and Satellite Imagery Analysis of CRP Land Reconversions. (*Submitted*).
- [2] Berg, Aleksander, **A. Howell** and Sharmistha Bagchi-Sen (2024). Local Labor Market Dynamics, Ethnic Migration and Income Disparities in a U.S. Metropolitan Workforce. (*Submitted*).
- [1] Mughan, Sian, Singla, Akheil and **A. Howell**. (2024). Foreign Buyer Taxes in New South Wales. (*Submitted*).

Publications

- [32] **Howell, A.** (2024). Road stimulus investments, cost-sharing and the uneven path to economic recovery. *Journal of Development Economics*. ([Link](#))
- [31] **Howell, A.**, Sian Mughan and Akheil Singla. (2024). Heterogeneous effects of a foreign buyer tax on house prices in New South Wales. *Journal of Economic Geography*. ([Link](#))
- [30] **Howell, A.** (2024). Spatioethnic Household Carbon Footprints in China and the Equity Implications of Climate Mitigation Policy: A Machine Learning Approach. *Annals of the American Association of Geographers*. ([Link](#))
- [29] **Howell, A.**, Robin Guohuibin Li, Sharmistha Bagchi-Sen and José Lobo (2023). Disentangling agglomeration economies from selection under policy distortions in China. *Regional Studies*. ([Link](#))
- [28] Caldarulo, Mattia, Karen Mossberger and **A. Howell** (2023). Broadband Adoption and Student Academic Achievement. *Telecommunications Policy*. ([Link](#))
- [27] **Howell, A.**, Robin Guohuibin Li, Maryann Feldman and Haifeng Qian (2022). Agglomeration, Recombinant Innovation and Market Reforms in China. *Economics of Innovation & New Technology*. ([Link](#))
- [26] **Howell, A.** (2022). Socio-economic impacts of scaling back a massive payments for ecosystem services program in China. *Nature-Human Behavior*. ([Link](#))
- [25] **Howell, A.** (2022). Impact of a Guaranteed Minimum Income Program on Rural-Urban Migration in China. *Journal of Economic Geography*. ([Link](#))
- [24] Boeing, Philipp, Jonathan Eberle and **A. Howell** (2021). The impact of China's R&D subsidies on R&D investment, technological upgrading and economic growth. *Technological Forecasting & Social Change*. ([Link](#))
- [23] Singla, Akheil, Sian Mughan and **A. Howell** (2021). The Effects of the COVID-19 Crisis on the City of Phoenix's Budget and Creditworthiness. *Municipal Finance*. ([Link](#))
- [22] **Howell, A.** (2020). Minimum Wage Impacts on Han-Minority Workers' Wage Distribution and Inequality in Urban China. *Journal of Urban Economics*, 115:1-19. ([Link](#))
- [21] **Howell, A.** (2020). Picking 'Winners in Space:' Impact of Local Industrial Support Policy on Firm Productivity in China. *Journal of Regional Science*, 60:1025-1046. ([Link](#))

- [20] **Howell, A.**, Chong Liu and Rudai Yang (2020). Impact of China's Economic and Development Zone Program on Selection and Agglomeration Economies. *Environment and Planning A*, 52:1332-1356. ([Link](#))
- [19] **Howell, A.**, Stephan Worack and Lin Jia (2020). Going out to innovate more at home: Impacts of outward direct investments on Chinese firms' domestic innovation performance. *China Economic Review*, 60:1-13. ([Link](#))
- [18] **Howell, A.** (2019). Relatedness Economies, Absorptive Capacity and Economic Catch-up: Firm-Level Evidence from China. *Industrial and Corporate Change*, 2:557-575. ([Link](#))
- [17] **Howell, A.** (2019). Heterogeneous Impacts of China's Economic and Development Zone Program. *Journal of Regional Science*, 59:797-818. ([Link](#))
- [16] **Howell, A.** (2019). Agglomeration, Absorptive Capacity and Knowledge Governance: Implications for Public-Private Firm Innovation in China. *Regional Studies*, 43:1069-1083. ([Link](#))
- [15] **Howell, A.** (2019). Industry Relatedness, FDI Liberalization and the Indigenous Innovation Process in China. *Regional Studies*, 54:229-243. ([Link](#))
- [14] **Howell, A.** (2019). Clustering Effects on Firm Exporting with Productivity-Enhancing R&D in China. *The World Economy*, 42:3168-3187. ([Link](#))
- [13] **Howell, A.** (2018). Ethnic Entrepreneurship, Initial Financing, and Business performance in China. *Small Business Economics*, 52:697-712. ([Link](#))
- [12] **Howell, A.**, Canfei He, Yang Rudai and Cindy Fan (2018). Agglomeration, (Un)-Related Variety and New Firm Survival in China: Do Local Subsidies Matter? *Papers in Regional Science*, 97:485-500. ([Link](#))
- [11] **Howell, A.** and Liu Yang, (2018). Turning Points in the Chinese Civil War. *Australian Economic History Review*, 59:263-288. ([Link](#))
- [10] **Howell, A.** (2017). Impacts of Migration and Remittances on Ethnic Income Inequality in Rural China. *World Development*, 94:200-211. ([Link](#))
- [9] **Howell, A.** (2017). Marshallian Sources of Relatedness and their Effects on Firm Survival and Subsequent Success in China. *Economic Geography*, 93: 346-366. ([Link](#))
- [8] **Howell, A.** (2017). Picking 'Winners' in China: Do Subsidies Matter for Indigenous Innovation and Firm Productivity? *China Economic Review*, 44:154-165. ([Link](#))
- [7] **Howell, A.**, Canfei He, Yang Rudai and Cindy Fan (2016). Technological Relatedness and Asymmetrical Firm Productivity Gains Under Market Reforms in China. *Cambridge Journal of Regions, Economy and Society*, 9:499-515. ([Link](#))
- [6] **Howell, A.** (2016). Firm R&D, Innovation and Easing Financial Constraints in China: Does Corporate Tax Reform Matter? *Research Policy*, 45: 1996-2007. ([Link](#))
- [5] **Howell, A.** (2015). 'Indigenous' Innovation with Heterogeneous Risk and New Firm Survival in a Transitioning Chinese Economy. *Research Policy*, 44:1866-1876. ([Link](#))
- [4] **Howell, A.** (2013). Chinese Minority Income Disparity in Urumqi: An Analysis of Han-Uyghur Labour Market Outcomes in the Formal and Informal Economies. *China: An International Journal*, 11:1-23. ([Link](#))
- [3] **Howell, A.** (2013). Is Geography Dead or Destiny in a Globalizing World? A Network Analysis and Latent Space Modeling Approach of the World Trade Network *Journal of Globalization Studies*, 4:3-20. ([Link](#))

- [2] **Howell, A.** and Cindy Fan (2011). Migration and Inequality in Xinjiang: A Survey of Han and Uyghur Migrants in Urumqi. *Eurasian Geography and Economics*, 52:119-139. ([Link](#))
- [1] **Howell, A.** (2011). Labor Market Segmentation in Urumqi, Xinjiang: Exposing Labor Market Segments and Testing the Relationship between Migration and Segmentation. *Growth and Change*, 42:200-226. ([Link](#))

Book Chapters

- [2] **Howell, A.**, (2018) "Chinese Innovation and Firm Performance: A Structural Approach with Spillovers," in Morgan, Peter, Guanghua Wan and Bihong Huang. (eds), *Avoiding the Middle-Income Trap in Asia: The Role of Trade, Manufacturing, and Finance*. Asian Development Bank.
- [1] **Howell, A.**, Björn Gustaffson and Ding Sai (2017) "Investigating the Patterns and Determinants of Han and Ethnic Minority Household Migration in China," in Björn Gustaffson, Ding Sai and Reza Hazmath (eds), *Ethnicity and Inequality in China*. New York and Oxford: Routledge. ([Link](#))

Teaching

Arizona State University

- ▶ Advanced Quantitative Methods (*Self-Designed: Doctoral Course*) ([Syllabus](#))
- ▶ Data Practicum in Spatial Analytics (*Co-Designed w/ Jesse Lecy: Masters Course*) ([Syllabus](#))
- ▶ Foundations of Program Evaluation I: Multiple Regression (Masters Course)
- ▶ Applied Statistics (*Self-Designed: Undergraduate Course*) ([Syllabus](#))

Peking University

- ▶ Economic Geography (*Self-Designed: Undergraduate Course*) ([Syllabus](#))
- ▶ Data Science and Network Analysis (*Self-Designed: Undergraduate Course*) ([Syllabus](#))
- ▶ The Next China and the Global Economy (*Self-Designed: Undergraduate Course*)
- ▶ Trade & Finance Globalization (*Self-Designed: Undergraduate Course*)

UCLA (Taught as a TA)

- ▶ Chinese Economy (*Self-Designed: Undergraduate Course*)
- ▶ Cultural Geography (*Self-Designed: Undergraduate Course*)

Referee Activity

General Interest

Proceedings of the National Academy of Sciences

Geography, Economics, Policy/Management

American J. of Agricultural Economics, Energy Economics, Environment & Planning A, Industrial & Corporate Change, J. of Economics, Race, and Policy, J. of Economic Geography, J. of Environmental Economics & Management, J. of Policy Analysis & Management, J. of Public Economics, J. of Regional Science, Professional Geographer, Research Policy, Review of Policy Research, Strategic Management J.

Urban and Development Fields

Cities, China Economic Review, China J., Economics of Innovation & New Technology, Emerging Markets Finance & Trade, Eurasian Geography & Economics, Growth & Change, International Regional Science Review, J. of Applied Economics, J. of Development Studies, Papers in Regional Science, Regional Studies, Regional Science & Urban Economics, Review of Economics of the Household, Sustainability, Urban Studies, Urban Affairs Review, World Development

Student Mentoring and Advising

- 2023- Clement Damoah, Dissertation Advisor, ASU
- 2023- Guohuibin Li, Dissertation Committee Member, ASU
- 2022-2024 Meredith McCullough, Dissertation Committee Member, ASU
- 2021-2021 Sebastian Aleman, Research Program for Underrepresented Minority Students, ASU
- 2020-2022 Guohuibin Li, Phd Student - Research Assistant, ASU
- 2020 Chan Wang, Phd Student - Specialization Comps Exam Committee, ASU
- 2019-2020 Ji Eun Kim, Phd Student - Research Assistant, ASU
- 2017-2019 Department head for incoming freshman economics students (*Banzhuren*), Peking University
- 2017-2018 Chaofan Jiao, Thesis Committee Member, Peking University
- 2017-2018 Tan Qi, Thesis Committee Member, Peking University
- 2017-2018 Hanxiao Zhou, Thesis Committee Member, Peking University
- 2016-2017 Aarthee Salvaraja, Thesis Committee Member, Peking University

Service Roles

as the Director Role for the Center on Technology, Data, and Society

- 2024- Increased research funding by 80%
 - U.S. National Science Foundation, National Research Foundation of South Korea
- 2024 Host International Workshop
 - 50+ attendees in computer science, engineering, public affairs/policy, and economics
- 2024- Host visiting policy practitioners
 - Soojung Shin (S. Korea Ministry of Education); Sanghoon Kim (S. Korea Ministry of Environment)
- 2023- Advise and meet regularly with PhD student center affiliates
- 2023- Host 1-2 research seminars per semester
- 2023- Increased the number of center faculty and student affiliates by 20%
- 2023- Attend Monthly Center Director Meetings with SPA Leadership

to the School of Public Affairs, Watts College and Arizona State University

- 2024-2025 Ad Hoc Curriculum Update Committee
- 2024-2025 MPA/MPP Committee Member
- 2023-2024 Undergraduate Committee Member
- 2022- Watts Ambassador to ASU's [Julie Ann Wrigley Global Futures Laboratory](#)
- 2022-23 MPA/MPP Master's Committee
- 2022-23 Re-design PAF 609: Advanced Quantitative Methods (PhD, In-Person, 15 weeks)
- 2019-2020 Co-Create PAF 516: Community Analytics (Masters, Online, 7.5 weeks)
- 2019-2020 Re-design PAF 301: Applied Statistics (Undergraduate, In-Person, 15 weeks)
- 2019-2020 Re-design PAF 301: Applied Statistics (Undergraduate, Online, 7.5 weeks)
- 2019-2022 Undergraduate Committee Member

to the Academy and Discipline

- 2023-2024 Elected-Chair, [China Geography Specialty Group](#), AAG
- 2022-2023 Elected-Vice Chair, [China Geography Specialty Group](#), AAG
- 2021-2022 Elected-Treasurer, [China Geography Specialty Group](#), AAG
- 2021- Editorial Board Member: [Progress in Economic Geography](#)
- 2021- Editorial Board Member: [Urban Governance](#)
- 2018-2020 Elected Board Member, Economic Geography Specialty Group, AAG
- 2018 Guest Co-editor: [Economic Modeling](#)

Submitted Research Grants (Unfunded)

- 2023 ASU AI Seed Grant Challenge, PI: \$50,000 Requested
- 2023 ASU Planet Seed Grant, PI: \$40,000 Requested
- 2022 Standard Grant, *National Science Foundation*, PI: \$937,192 Requested
- 2021 Standard Grant, *National Science Foundation*, PI: \$197,887 Requested
- 2020 ISSR Seed Grant, ASU, PI: \$7,000 Requested
- 2020 Early Career Award, *Upjohn Institute*, PI: \$20,000 Requested
- 2019 CAREER, *National Science Foundation*, PI: \$481,712 Requested
- 2019 China Fellowship, *Lincoln Institute of Land Policy*, PI: \$25,000 Requested
- 2018 Inequality-Migration Nexus, *Volkswagen Stiftung*, Co-PI: \$255,188 Requested
- 2017 *International Development Research Center*, PI: \$55,301 Requested
- 2017 Early Career Award, *Regional Studies Association*, PI: \$30,000 Requested
- 2017 China Fellowship, *Lincoln Institute of Land Policy*, PI: \$25,000 Requested
- 2015 Exploratory Grants, *PEDL-CEPR*, PI: \$55,000 Requested
- 2015 Supporting Inclusive Growth, *IDRC*, PI: \$40,000 Requested

Fellowships, Honors and Awards

- 2019 Sir Timothy Coghlan Prize
- 2018 Best Conference Paper Award, *Conference on Innovation Studies, Tsinghua University*
- 2018 Young Researcher's Prize (Finalist), *RSAI*
- 2018 Gregory Chow Best Paper (Finalist), *CES*
- 2017 Transregional Research Fellowship (Finalist) *Social Science Research Council*
- 2017 The Peter Nijkamp Award, *RSAI*
- 2017 Analytics/Policy Migration Program Fellow, *Georgetown University*
- 2016 PACTAD Fellow, *East Asia Bureau of Economic Research*
- 2014 2nd Place Teaching Prize *Peking University*
- 2014 Young Scholars Initiative Grantee, *INET*
- 2014-2019 China Foreign Expert, *SAFE*
- 2013-2014 Dissertation Year Fellowship, *UCLA*, \$20,000
- 2013-2014 Teaching Fellow, *UCLA*, \$6,000
- 2013 Best Graduate Student Paper, *NARSC, RSA*
- 2013 Research Travel Grant, *UCLA Graduate Division*
- 2012-2013 FLAS Fellowship - Mandarin, *U.S. Dept. of Education*, \$20,000
- 2012 Siff Education Enhancement Award, *UCLA*, \$5,000
- 2012 Charles & Sue Young Award, *UCLA*, \$5,000
- 2010-2011 FLAS Fellowship - Mandarin, *U.S. Dept. of Education*, \$20,000
- 2010; 2012 UCLA Affiliates Award, *UCLA*, \$10,000
- 2010 Research Mentorship Award, *UCLA Graduate Division*
- 2010 Summer FLAS Fellowship - Mandarin, *U.S. Dept. of Education*, \$8,500
- 2009-2010 Chancellor's Award for Top 1% of incoming PhDs, *UCLA*, \$10,000
- 2009 CLS - Mandarin, *U.S. Dept. of State*, \$6,500
- 2008;2009 Summer FLAS Fellowship - Mandarin, *U.S. Dept. of Education*, \$8,500
- 2009 Graduate Student Paper Award, *AAG, China Geography Specialty Groups*
- 2009 Graduate Student Paper Award, *AAG, Asia Geography Specialty Group.*
- 2009 Research Enhancement Grant, *MSU Grad School*
- 2008 Summer FLAS Fellowship - Mandarin, *U.S. Dept. of Education*, \$8,500
- 2008 Fieldwork Grant, *Xinjiang University, China, MSU.*
- 2007-2009 Graduate Assistantship, *Dept. of Residence Life, MSU*
- 2007-2009 FLAS Fellowship - Mandarin, *U.S. Dept. of Education*, \$40,000
- 2007 A.J Harris Field Work Scholarship, *MSU*, \$5,000
- 2007 Homer Higby International Service Award, *MSU*, \$5,000
- 2006 Community Foundation's Volunteerism Award, *City of Lansing*

Seminars and Conference Attendance

2024-2025 (Includes Upcoming)

- ▶ Seminars Macau University
- ▶ Conference: Baichuan Forum, North American Regional Science Conference

2023-2024 (Includes Upcoming)

- ▶ Seminar: University of Notre Dame; Université Côte d'Azur
- ▶ Conference: American Association of Geographers; Regional Science Association, DRUID, KID (Knowledge Dynamics, Industrial Evolution, Economic Development)

2022-2023

- ▶ Conference: NARSC, American Association of Geographers

2021-2022

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

2020-2021

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

2019-2020

- ▶ Seminar: Arizona State University (Geography); University of Chicago (Center for Spatial Data Science)
- ▶ Conference: North American Regional Science (Philadelphia); American Association of Geographers (virtual)

2018-2019

- ▶ Seminar: Arizona State University (Public Affairs); University of North Carolina (Public Policy); Hong Kong University of Science and Technology (Public Policy); Rutgers University (Planning/Policy); University of Arizona (Geography/Development); Hong Kong University (Sociology/Geography); University of Toronto (Management)
- ▶ Conferences: YSI Economic Complexity Workshop (Massachusetts Institute of Technology); Global Regional Science Association (Peking University); Innovation Studies (Tsinghua University)

2017-2018

- ▶ Invited Keynote: 7th Symposium on Spatial Economics (Southwest University of Finance and Economics)
- ▶ Seminar: Rutgers University (Agricultural Economics)
- ▶ Conferences: North American Chinese Economists Society (University of Georgia); 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

- ▶ Conferences: 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); Innovation Studies (Tsinghua University); NBER Chinese Economy (University of Hong Kong-Shenzhen, Shenzhen); Chinese Development (Southwest University of Finance and Economics); American Economic Association Annual Meeting (San Francisco) -

2015-2016

- ▶ Conferences: 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

- ▶ Conferences: 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)
- ▶ Workshops: Summer School in Development Economics (Ascea, Italy); Summer Institute of Economic Geography (Frankfurt, Germany)