

Luyi Han

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Academic Appointments

2025 - present, Assistant Professor of Regional and Agricultural Economics, Department of Agricultural Economics, Sociology, and Education, College of Agricultural Sciences, The Pennsylvania State University

2021 - 2025, Postdoctoral Scholar, Northeast Regional Center for Rural Development, Department of Agricultural Economics, Sociology, and Education, College of Agricultural Sciences, The Pennsylvania State University

Affiliations

2025 - present, Faculty Affiliate, Center for Economic and Community Development, The Pennsylvania State University

2025 - present, Faculty Affiliate, Northeast Regional Center for Rural Development, The Pennsylvania State University

2025 - present, Faculty Affiliate, Social Science Research Institute, The Pennsylvania State University

2026 - present, Faculty Affiliate, Huck Institutes of the Life Sciences, The Pennsylvania State University

Education

Ph.D. in Economics, Oklahoma State University, Stillwater, 2016 - 2021

Master in Economics, Oklahoma State University, Stillwater, 2016 - 2019

Bachelor in Economics, University of Minnesota, Duluth, 2014 - 2016

Bachelor in Finance, Ocean University of China, Qingdao, China, 2012 - 2014

Research Interests

Regional and Urban Economics, Rural Economic Development, Entrepreneurship Economics, Labor Economics, Applied Microeconomics

Research

Refereed Publications (N=15)

- [15] **Luyi Han**, John V. Winters, and Michael Betz. "Do Prior Residents Benefit from Energy Booms?" *Journal of the Association of Environmental and Resource Economists*, Accepted.
- [14] **Luyi Han** "Broadband Adoption and Self-Employment — Evidence from the American Community Survey." *Economics Bulletin*, 2026, Vol. 46 No. 1 pp. 393-404.
- [13] **Luyi Han**, Timothy R. Wojan, Anil Rupasingha, and Stephan J. Goetz. "Rural Innovative Firms and Credit: Findings from the Annual Business Survey." *Finance Research Open*, Volume 1, Issue 4, December 2025, 100051.
- [12] Timothy R. Wojan, **Luyi Han**, Zheng Tian, and Stephan J. Goetz. "Design: An Ignored but Essential Input to Rural Innovative Entrepreneurship." *Journal of Innovation and Entrepreneurship*, 14, no. 1 (2025): 67.
- [11] **Luyi Han**, Timothy R. Wojan, Zheng Tian, and Stephan J. Goetz. "Explaining the Urban-Rural Export Gap: Evidence from U.S. Firms." *Journal of the Agricultural and Applied Economics Association*, 2025; 1–19.
- [10] **Luyi Han**, and John V. Winters. "Did the U.S. Fracking Boom Shale-Shock Regional Patenting?." *Growth and Change: A Journal of Urban and Regional Policy*, 55, no. 4 (2024): e12740.
- [9] **Luyi Han**, Timothy R. Wojan, and Stephan J. Goetz. "Cloud Computing and Rural Globalization: Evidence for the US Nonfarm Economy." *Telecommunications Policy*, (2024): 102814.
- [8] Claudia Schmidt, **Luyi Han**, Arian Moghadam, and Stephan J. Goetz. "Broadband Access and Agritourism Operations in the United States." *Journal of the Agricultural and Applied Economics Association*, (2024)
- [7] **Luyi Han**, Timothy R. Wojan, Zheng Tian, and Stephan J. Goetz. "How Export Performance is Mediated by Innovation, Owner characteristics, and Location." *Economics Letters*, 237 (2024): 111657.
- [6] **Luyi Han**, Zheng Tian, Timothy R. Wojan, and Stephan J. Goetz. "Testing Biasedness of Self-reported Microbusiness Innovation in the Annual Business Survey." *PloS one*, 19, no. 1 (2024): e0296667.
- [5] **Luyi Han**, Timothy R. Wojan, and Stephan J. Goetz. "Experimenting in the Cloud: The Digital Divide's Impact on Innovation." *Telecommunications Policy*, 47, no. 7 (2023): 102578.
- [4] **Luyi Han**, Stephan J. Goetz, Daniel Eades, Jason Entsminger, and Doug Arbogast. "An Early Assessment of COVID-19's Impact on Tourism in U.S. Counties." *Tourism Economics*, 29, no. 5 (2023): 1355-1375.
- [3] **Luyi Han**, and John V. Winters. "Industry Fluctuations and College Major Choices: Evidence from an Energy Boom and Bust." *Economics of Education Review*, 77 (2020): 101996.
- [2] Azam, Mehtabul, and **Luyi Han**. "Accounting for Differences in Female Labor Force Participation between China and India." *The BE Journal of Economic Analysis & Policy*, 20, no. 2 (2020): 20190302.
- [1] Lahiri, Bidisha, and **Luyi Han**. "Effect of Product Obsolescence on Wages: Role of International Trade and Skill Levels." *Economics Letters*, 186 (2020): 108851.

Selected Working Papers (N=3)

- [1] "Economic, Social, and Environmental Drivers of Resilience and Recovery of U.S. Counties during the COVID-19 Pandemic", with Stephan J. Goetz, Daniel Eades, and Doug Arbogast. **Revise & Resubmit** at *Review of Regional Studies*
- [2] "Minority and Female Owned Firms and Credit: Findings from the Annual Business Survey", with Stephan J. Goetz. **Revise & Resubmit** at *Economic Development Quarterly*
- [3] "Exploring Sustainable Tourism Indicators (STIs) for the U.S. using Secondary Data", with Stephan J. Goetz, Daniel Eades, and Doug Arbogast. **Revise & Resubmit** at *Tourism Economics*

Selected Work in Progress (N=3)

- [1] "Population Impacts of the Fracking Boom and Bust", with John V. Winters and Michael Betz.
- [2] "Broadband and Work-from-Home: Evidence from Confidential ACS Data", with John V. Winters and Brian Whitacre.
- [3] "User Entrepreneurship and Firm Employment Growth", with Zheng Tian, Timothy Wojan, Anil Rupasingha, and Stephan Goetz.

Teaching

Instructor (full teaching responsibility), Department of Agricultural Economics, Sociology, and Education, Penn State University

AGBM 102, Economics of the Food System (Fall 2025)

AGBM 338, Agribusiness in the Global Economy (Spring 2026)

Instructor (full teaching responsibility), Department of Economics, Oklahoma State University

ECON 3313, Money and Banking (Fall 2018, Fall 2019, Spring 2020, Fall 2020, Spring 2021), average class evaluation (4.56 / 5)

ECON 2103, Introduction to Microeconomics (Summer 2019), class evaluation (4.64 / 5)

Graduate Teaching Assistant, Oklahoma State University. Fall 2016 - Spring 2018

ECON 4233, Econometric Applications, (Spring 2018)

ECON 4913, Urban and Regional Economics (Spring 2017)

ECON 6913, Urban Economics (Spring 2017)

Extension and Outreach

Refereed Conference Proceedings (N=2)

- [1] "[The U.S. Recreation Economy: Data, COVID-19, and Implications for Extension](#)", with Stephan J. Goetz, Daniel Eades, Jason Entsminger, and Doug Arbogast. *National Extension Tourism 2021 Conference Proceedings*
- [2] "[Developing and Deploying Rural Sustainable Tourism Indicators for Improved Destination Management](#)", with Stephan J. Goetz, Daniel Eades, and Doug Arbogast. *2024 TTRA International Conference Proceedings*

Policy Report (N=2)

- [1] "[Economic and Quality of Life Indicators for Allegheny National Forest Counties in Pennsylvania](#)", 2025, with Stephan J. Goetz, Daniel Eades, and Doug Arbogast.
- [2] "[Economic and Quality of Life Indicators for Monongahela National Forest Counties in West Virginia](#)", 2025, with Stephan J. Goetz, Daniel Eades, and Doug Arbogast.

Data Brief (N=2)

- [1] "[Impacts of COVID-19 on Northeast Economic Activity](#)", with Stephan J. Goetz and Jason Entsminger. *NERCRD COVID-19 Data Brief 22-01*
- [2] "[Impacts of COVID-19 on Northeast Tourism and Recreation Economies](#)", with Stephan J. Goetz and Jason Entsminger. *NERCRD COVID-19 Data Brief 22-02*

Poster Presentations (N=3)

- [1] "[Decarbonization in Manufacturing: Prevalence, Rationale, and Methods](#) ", with Zheng Tian and Stephan J. Goetz. May 19–20, 2025, The Penn Stater Hotel and Conference Center, State College, Pennsylvania. *Climate Solutions Symposium 2025*
- [2] "[How Export Performance is Mediated by Varieties of Innovation, Owner Characteristics, and Location](#)", with Zheng Tian, Timothy R. Wojan, and Stephan J. Goetz. *2024 The annual Allied Social Science Associations (ASSA) meeting*
- [3] "[User Entrepreneurship and Firm Employment Growth](#)", with Zheng Tian, Timothy R. Wojan, and Stephan J. Goetz. *2024 The annual Allied Social Science Associations (ASSA) meeting*

AgEcon Search (N=3)

- [1] "[Impact of Broadband Adoption on Agritourism Operations in the United States](#)", with Claudia Schmidt, Marian Moghadam, and Stephan J. Goetz. *AgEcon Search,2023*
- [2] "[Impact of Community Reinvestment Act on Minority and Female Employment Growth](#)", with Anil Rupasingha, Yuxuan Pan, and Stephan J. Goetz, . *AgEcon Search,2023*
- [3] "[Internationalization of the Rural Nonfarm Economy and the Cloud: Evidence from US Firm-level Export Data](#)", with Timothy R. Wojan and Stephan J. Goetz. *AgEcon Search,2023*

Center for Economic Study Working Paper (N=1)

- [1] "[Grassroots Design Meets Grassroots Innovation: Rural Design Orientation and Firm Performance](#)", with Timothy R. Wojan, Zheng Tian, and Stephan J. Goetz. *CES Working Paper 24-17,2024*

Invited Workshop/ Webinar/ Extension Conference (N=5)

- [1] 2025 National Association of Community Development Extension Professionals Conference (Charleston, WV, 06/10/2025).
- [2] WV Visitor and Resident Survey Findings Presentation (Online, 04/16/2025).
- [3] ANF Region Secondary Data Report Presentation (Online, 03/24/2025).
- [4] Land Use Webinar Series (Online, 03/12/2025).
- [5] National Science Foundation (NSF) National Center for Science and Engineering Statistics (NC-SES) Annual Business Survey (ABS) User Workshop (Online, 02/28/2024).

Media

"Innovative businesses may be less likely to be approved for credit loans" *Penn State University News*, September 30, 2025

"Strategic design approach boosts rural innovation, researchers find" *Penn State University News*, June 18, 2025

"The key to eliminating America's trade deficit lies in rural areas not tariffs" *Newsweek (in Japanese)*, May 30, 2025

"Rural Manufacturing Exports Linked to Innovation" *Morning AgClips: America's #1 Ag News Source*, April 14, 2025

"Rural manufacturing exports linked to innovation" *Penn State University News*, April 1, 2025

"Innovation Linked to International Exports for Both Rural and Urban Firms" *Farms.com Newsletters*, April 02, 2024

"Innovation linked to international exports for both rural and urban firms" *Penn State University News*, March 28, 2024

"Lack of Access to Cloud Computing May Hinder Rural Innovation, Study Shows" *The Daily Yonder*, August 17, 2023

"Digital divide hinders rural innovation, study shows" *Penn State University News*, June 9, 2023

"Tourism activity collapse during COVID-19 benefited rural hospitality employment" *Penn State University News*, June 17, 2022

Academic Activities

Reviews and Service

Board of Journal Reviewers: *Journal of Agriculture, Food Systems, and Community Development*

Journal Article Reviews:

Applied Economics (× 3); *Applied Economics Letters*; *Economics Bulletin*; *Economics of Education Review*; *Finance Research Letters*; *Applied Economic Perspectives & Policy*; *Food Policy* (× 2); *International Regional Science Review*; *Journal of Agriculture, Food Systems, and Community Development* (× 8); *Journal of Economic Geography*; *Journal of Environmental Economics and Management*; *Journal of Labor Research*; *Papers in Regional Science* (× 2); *PLOS Climate*; *PLOS One*; *Population Research and Policy Review*; *Regional Science, Policy and Practice*; *Review of Regional Studies*; *Technological and Economic Development of Economy*; *Tourism Economics* (× 7)

Conference Reviews: Agricultural & Applied Economics Association (AAEA) 2022 & 2026

Conference Presentations

2026: American Economic Association (AEA) Allied Social Science Associations (ASSA) Annual Meeting (Philadelphia, PA, 1/3-1/5); 65th Meeting of the Southern Regional Science Association (SRSA) (Louisville, KY, 03/19-03/21)

2025: 71th Annual Meetings of the North American of Regional Science Association International (NARSCI) (Denver, CO, 11/12-11/15); Industry Studies Association 2025 Annual Conference (Cambridge, MA, 06/04-06/06); 64th Meeting of the Southern Regional Science Association

(SRSA) (Louisville, KY, 04/03-04/05); American Economic Association (AEA) Allied Social Science Associations (ASSA) Annual Meeting (San Francisco, CA, 1/3-1/5)

2024: 70th Annual Meetings of the North American of Regional Science Association International (NARSC) (New Orleans, LA, 11/13-11/16); FCSM Research & Policy Conference (Hyattsville, MD, 10/22-10/24); 63th Meeting of the Southern Regional Science Association (SRSA) (Washington, DC, 04/04-04/06); American Economic Association (AEA) Allied Social Science Associations (ASSA) Annual Meeting (San Antonio, TX, 1/4-1/7)

2023: 70th Annual Meetings of the North American of Regional Science Association International (NARSC) (San Diego, CA, 11/15-11/18); Agricultural & Applied Economics Association (AAEA) Annual Meeting (Washington, D.C., 07/23-07/25); 62th Meeting of the Southern Regional Science Association (SRSA) (Savannah, GA, 03/30-04/01); 62nd Annual Meeting of Western Regional Science Association (WRSA) (Big Island, HI, 02/15-02/18)

2022: 69th Annual Meetings of the North American of Regional Science Association International (NARSC) (Montreal, Canada, 11/09-11/12); FCSM Research & Policy Conference (Washington, D.C, 10/25-10/27); 61th Meeting of the Southern Regional Science Association (SRSA) (Austin, TX, 04/07-04/10)

2021: 68th Annual Meetings of the North American of Regional Science Association International (NARSC) (Denver, CO, 11/10-11/13)

2020: 90th Meeting of the Southern Economic Association (SEA) (11/21-11/23); 57th Annual Conference of the Missouri Valley Economic Association (MVEA) (10/15-10/17); Southern Regional Science Association (SRSA) Virtual Session: Entrepreneurship and Innovation ([Video](#)) (07/14)

2019: 58th Meeting of the Southern Regional Science Association (SRSA) (Washington, DC, 04/04-04/06)

2018: 65th Annual Meetings of the North American of Regional Science Association International (NARSC) (San Antonio, TX, 11/10-11/13)

Professional Affiliations

Member: American Economic Association (AEA); Southern Regional Science Association (SRSA); Regional Science Association International (RSAI)

Awards & Grants

Duck Woo Nam Distinguished Graduate Fellowship (DGF), Oklahoma State University, Fall 2018 & Spring 2019

GPSGA Conference Travel Awards, Oklahoma State University, Spring 2019

Department Conference Travel Award, Oklahoma State University, Fall 2018 & Spring 2019

Graduate Teaching & Research Assistantship, Department of Economics, Oklahoma State University, Fall 2016 - Spring 2021

LSBE Dean's List, University of Minnesota, Fall 2014 & Fall 2015

University Service

Representative, Finance Committee, Graduate and Professional Student Government Association (GPSGA),

Oklahoma State University, Spring 2018 - Spring 2019

Vice President, Doctoral Student Association of the Spears School of Business, Oklahoma State University, Fall 2019 - Fall 2020

Internship

Assistant Researcher, Chongqing Changan Kuayue Vehicle Co., LTD, Chongqing, China, July 2015 - August 2015

Other

Computer Skills

Stata, ArcGIS

Security Clearance

U.S. Census Bureau Special Sworn Status (2021-present)

Languages

Chinese (native), English (fluent)

References

Dr. [Stephan J. Goetz](#)

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Dr. [John V. Winters](#)

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Dr. [Brian Whitacre](#)

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Oklahoma State University
Phone: (405) 744-9825
Email: brian.whitacre@okstate.edu

Dr. [Claudia Schmidt](#)

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and Local/Regional Food Systems
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Dr. [Mehtabul Azam](#)

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Dr. [Dan Rickman](#)

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