

JINGZE JIANG

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EDUCATION

Ph.D. Economics, Washington State University, 2013

M.S. Statistics, Washington State University, 2013

B.A. Finance, Shanghai University, 2009

RESEARCH INTEREST

Energy Financial Economics, Risk Quantification and Management in Commodity Market, Natural Resources Economics, Environmental Economics, Econometrics, Industrial Organization

EXPERIENCE

Associate Professor, Department of Business and Economics, School of Business, Edinboro University of Pennsylvania (EUP), 2018.8-present

Assistant Professor, Department of Business and Economics, School of Business, Edinboro University of Pennsylvania (EUP), 2013.8-to 2018.7

Instructor, School of Economic Sciences, Washington State University (WSU), Summer 2011

HONORS AND AWARDS

1. Nominee as *the university Scholar of the Year*. Edinboro University of Pennsylvania, 2016
2. Teaching Online Certification Course (TOCC) Certificate, 2014
3. *NIFA Partnership Award for Innovative Programs and Projects* from the National Institute of Food and Agriculture, 2013
4. Nominee as *the university Faculty of the Year*. Edinboro University of Pennsylvania, 2013.
5. *Two Awards for Excellence in Teaching* Honored by the Dr. Robert C. Weber Honor Program, Edinboro University of Pennsylvania, 2013
6. *Graduate & Professional Student Association (GPSA) Registration Grant Award*, Washington State University, 2012.

PEER-REVIEWED PUBLICATIONS

1. **Jiang, J.** and Marsh, L.T. (2019) "Volatility Spillover Effects and Cross Hedging in the U.S. Oil Market and the Energy Pipeline Sector Index" in "[*Handbook of Energy Finance: Theories, Practices and Simulations*](#)", eds. S. Goutte, D.K. Nguyen, World Scientific Publishing. *Forthcoming* (Lead author)

2. **Jiang, J.**, & Fortenbery, T. R. (2019). "[El Niño and La Niña induced volatility spillover effects in the U.S. soybean and water equity markets](#)". *Applied Economics*, 51(11), 1133-1150. (Lead author)
3. **Jiang, J.** (2016). "[Peer Pressure in Voluntary Environmental Programs: a Case of the Bag Rewards Program](#)." *Journal of Industry, Competition and Trade* 16(2): 155-190
4. **Jiang, J.**, Marsh, T. L., & Tozer, P. R. (2015). "[Policy induced price volatility transmission: Linking the US crude oil, corn and plastics markets](#)". *Energy Economics*, 52, 217-227. (Lead author)

PAPERS IN PROGRESS

1. **Jiang, J.** " Volatility Transmission and Impulse Response Analysis of China's Plastic Bans in Oil, Plastics Commodity and Exchange Markets".
2. **Jiang, J.** and Wetzstein, M. "Public Institution Evaluation of Solar Adoption: A Real Options Analysis" (Lead author)
3. **Jiang, J.**, Marsh, L.T. and Belasco, E. "Optimizing Microplastic Pollution in the Soil: A Case of Plastic Mulches" (Lead author)
4. **Jiang, J.** "Developing Renewable Energy to Reduce Volatility on Domestic Energy Market"

RESEARCH GRANTS

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|---|--------------|
| Co-Principal Investigator (co-PI) , Project " <i>Lake Friendly Restaurant program</i> " (Drafting). \$150,000 Funding source: NOAA Marine Debris Program | 2018-present |
| Principal Investigator (PI) , Project " <i>Revitalizing Older Industrial Cities by Developing Renewable Energy Related Small Business</i> " (Awarded). \$1,297 Funding source: University Senate Research Committee Grant | 2018-present |
| Principal Investigator (PI) , Project " <i>Choosing a Cost-Effective Sustainability Portfolio: Case Study of Edinboro University of Pennsylvania</i> " (Completed). \$736.12 Funding source: University Senate Research Committee Grant Collaborated with the Physics and Technology Department, Edinboro University of Pennsylvania | 2014-2015 |
| Participant , Project " <i>Biodegradable Mulches for Specialty Crops Produced Under Protective Covers</i> " (Completed) \$2,000,000 Funding source: National Institute of Food and Agriculture, U.S. Department of Agriculture, under award numbers 2009-51181-05897 and 2014-51181-22382. | 2011-2013 |

RESEARCH GRANT UNDER REVISION

Participant, Project “*Live Plastic Free*” (under revision) \$132,000 Dec. 2017
Funding source: NOAA Marine Debris Program

Principal Investigator (PI), Project “EU Education and Environment
 Enrichment Programs” (under revision) \$ 55,940 Nov. 2017
Funding source: Erie Insurance Giving Network

Collaborator, Project “Cost-Effective Internal Thermal and Moisture Insulation
 Envelope Home Improvement Rd&D Projects” (under revision) \$150,000 Nov. 2015
Funding source: Department of Energy (DOE), Office of Energy Efficiency
 and Renewable Energy, FOA Number: DE-FOA-0001395

PEER-REVIEWED CONFERENCE PRESENTATIONS

1. **Jiang, J.** "*Beyond the Plastic Bans: the Impact of the Chinese Plastic Bans on Risk Transmissions among Chinese Plastics, Oil and Currency Markets*". Southern Economic Association 2018 Annual Meeting. Washington DC. Nov, 2018 (Regional Conference)
2. **Jiang, J.** “*A Real Options Evaluation for Solar Power Adoption under Uncertainty: a Case of Public Institutions at Northwest Pennsylvania*” Southern Economic Association 2017 Annual Meeting. Tampa, FL, Nov. 2017. (Regional Conference)
3. **Jiang, J.** “*El Niño and La Niña Induced Volatility Spillover Effects and Cross Hedging in U.S. Soybean and Equity Markets*” Southern Economic Association 2016 Annual Meeting. Washington DC, Nov. 2016. (Regional Conference)
4. **Jiang, J.** and Marsh, L.T. “*Volatility Spillover Effects and Cross Hedging in the U.S. Oil Market and the Energy Pipeline Sector Index*” (Presented as a poster) 2016 Agricultural and Applied Economics Association (AAEA) Conference, Boston, MA, July 2016. (National Conference)
5. **Jiang, J.** and Marsh, L.T. “*Volatility-Spillover Effects from Financial and Oil Market to the U.S. Pipeline Sector,*” Southern Economic Association 2015 Annual Meeting. New Orleans, LA, Nov. 2015. (Regional Conference)
6. **Jiang, J.** “*Bandwagon Effect on Plastic Shopping Bag Reduction: Rewards or Ban,*” Northeastern Association of Business, Economics and Technology 37th annual meeting, State College, PA, Oct. 2014. (Regional Conference)
7. **Jiang, J.,** Marsh, L.T. and Tozer,P. “*Policy Induced Price Volatility Transmission: Linking the U.S. Crude Oil, Corn and Plastics Markets,*” (Presented as a poster) 2014 Agricultural and Applied Economics Association (AAEA) Conference, Minneapolis, MN, July 2014. (National Conference)
8. **Jiang, J.** “*Developing Renewable Energy to Reduce Market Volatility of Domestic Energy Market,*” 2014 Pennsylvania Economic Association (PEA) Conference, Edinboro, PA, May 2014. (State Conference)
9. **Jiang, J.,** Marsh, L.T. and Tozer,P. “*Risk Spillover in the U.S. Crude Oil, Corn and Plastics markets,*” International Conference On Applied Business And Economics (ICABE) , New York, NY, Oct. 2013. (International Conference)

10. **Jiang, J.** “*Bandwagon Effects on Participation in Voluntary Environmental Programs: A Case of Plastic Bags Reduction,*” International Conference on Applied Business And Economics (ICABE), New York, NY, Oct. 2013. (International Conference)
11. **Jiang, J.** “*Voluntary Rewards for Consumers’ Participation in Green Practices: A Case of Plastic Bags Reduction,*” Pacific Northwest Regional Economic Conference (PNREC), Spokane, WA, May 2013. (Regional conference)
12. **Jiang, J.** “*Philanthropists or Profit Chasers: A Theoretical Model of Voluntary Rewards for Not Using Plastic Bags,*” Southern Economic Association 2012 Annual Meeting. New Orleans, LA, Nov. 2012. (Regional Conference)
13. **Jiang, J.,** Marsh, L.T. and Belasco, E. “*Optimal Pollution Control in Agricultural Production: Biodegradable versus Plastic Mulches,*” Pacific Northwest Regional Economic Conference (PNREC) Seattle, WA, May 2012. (Regional Conference)

SEMINARS

1. **Jiang, J.** "Volatility Spillover Effects and Cross Hedging in the U.S. Oil Market and the Energy Pipeline Sector Index" Business School, Shandong University of Technology, Shandong, China, June, 2018
2. **Jiang, J.** and Marsh, L.T. “*Volatility-Spillover Effects from Financial and Oil Market to the U.S. Pipeline Sector,*” Business and Economics Department Research Symposium, Edinboro, PA, April 2016.
3. **Jiang, J.** “*Bandwagon Effect on Plastic Shopping Bag Reduction: Rewards or Ban?*” Business and Economics Department Research Symposium, Edinboro, PA, April 2014.
4. **Jiang, J.** “*Voluntary Rewards for Consumers’ Participation in Green Practices: A Case of Plastic Bags Reduction,*” School of Economic Sciences Seminar, Pullman, WA, Feb. 2013.
5. **Jiang, J.,** Marsh, L.T. and Belasco, E. “*Optimal Pollution Control in Agricultural Production: Biodegradable vs. Plastic Mulches: General Model and Application in the Plastic Mulches,*” University of Tennessee, Knoxville, TN, Mar. 2012.

DISCUSSANT

1. Smith, B. and Wagner, J. “*Adjusting for guessing and applying a statistical test to the disaggregation of value-added learning scores*” Southern Economic Association 2017 Annual Meeting. Tampa, FL, Nov. 2017.
2. Neves, M., Silva, F., and Braga, M. “*The Effect of Cooperative Membership on Agricultural Profit in the Brazilian South and Southeast Regions*” Southern Economic Association 2016 Annual Meeting. Washington D.C., Nov. 2016.
3. Gevorkyan, A “*Climate Change and Agricultural Production: Policies, Reserves and Weather Derivatives,*” Southern Economic Association 2015 Annual Meeting, New Orleans LA, Nov. 2015.
5. Jung, J. and Streeter, J. “*Does Health Insurance Decrease Health Expenditure Risk in Developing Countries? The Case of China,*” 2014 Pennsylvania Economic Association (PEA) Conference, Edinboro, PA, May 2014.

6. Jozefowicz, J. and Nelson, Z.T. "Keystone Cops' and Crime Theories: A Panel Data Analysis of Pennsylvania County Crime Rates," 2014 Pennsylvania Economic Association (PEA) Conference, Edinboro, PA, May 2014.
7. Park, K. "Post-Monitoring of Energy Efficiency Labeling Program: The Case of Korea," Southern Economic Association 2012 Annual Meeting, New Orleans LA, Nov. 2012.

TEACHING EXPERIENCE

- **Instructor**
 - Money and Banking (Face-to-face at EUP)
 - Business in Society (Online and Face-to-face at EUP)
 - Elements of Economics (Face-to-face at EUP)
 - Principles of Macroeconomics (Online and Face-to-face at EUP)
 - Principles of Microeconomics (Online and Face-to-face at EUP)
 - Statistics for Business and Economics, (Online and Face-to-face at EUP)
 - Fundamentals of Macroeconomics (at WSU)
- **New Course Developed**
 - Globalization and China's Business and Economics Development (Upper-level travel course)
- **Teaching Assistant**
 - Ph.D. Econometrics (at WSU)
 - Ph.D. Macroeconomic Theory (at WSU)
 - Advanced Business Management Economics (at WSU)
 - Introduction to Farm and Ranch Management (at WSU)
 - Fundamentals of Macroeconomics (at WSU)
- **Teaching Interests**
 - Financial Economics
 - Money and Banking
 - International Finance
 - Qualitative Analysis
 - Micro/Macroeconomics
 - Risk Management
 - Econometrics
 - Energy Economics
 - Environmental Economics

MEDIA COVERAGE

"Google this: How to grow a business", October 29, 2017, Erie Times-News

ACADEMIC & SOCIAL SERVICE

Professional Services:

Referee

Cogent Economics and Finance

International Journal of Financial Studies
Entropy
Waste Management,
Latin American Research Review
Sustainability

University-wide Services:

Task Force member, Mission, Vision and Values Task Force
Committee Member,

Community Engagement Committee
University Grants, Research and Writing Committee
University Sustainability Committee
University Senate Research Committee
Planning and Budgeting Committee

One of four Delegates, visiting five universities in China with the Provost to establish a working partnership

International Student Adviser, Edinboro University of Pennsylvania

Departmental Services:

Organizer, Annual Women in Business Panel Discussion

Adviser, Sustainability and Humanity Club

Department Representative, University Faculty Senate

Adviser for undergraduate, around 50 advisees

Committees

BS-Economics Committee

BSBA-International Business Committee

Student Engagement Committee

Student Recognition

Search and Screen for Accounting Position

Comprehensive Exam-Economics (for AACSB Accreditation purpose)

Concentration/Economics Learning Objectives

Community Services:

Co Chair, Federal Reserve Bank of Cleveland Undergraduate Research Conference

Board member, ATHENA Erie

Committee member, Outstanding Research Publication for the Western Agricultural Economics Association

Judge, 5th Annual Resilient Erie Stewardship Summit, Erie, PA, November 15th, 2017

Co-director for Startup Grind powered by Google for Entrepreneurs-Eire 2017-2018

Graduation Guest Speaker, School of Economics, Shanghai University, Shanghai, China, 2016 summer

Judge, STEM Commercialization Plan and STEM Business Plan Competitions hosted by Believe in Ohio, 2015, 2016

Member, Northwest Pennsylvania Green Economy Taskforce (NWPAGE), Erie, PA, 1. 2014-to present

PROFESSIONAL MEMBERSHIPS

Association of Environmental and Resource Economists (AERE)
American Economic Association (AEA)
Agricultural & Applied Economics Association (AAEA)
Southern Economic Association (SEA)
AAEA-Teaching, Learning, and Communications Section (TLC)
AAEA-Committee on Women in Agricultural Economics (CWEA)
AAEA-Land, Water and Environmental Economics Section (ENV)
AAEA-Applied Risk Analysis section (ARA)

OTHER SKILLS

Computer Skills: MATLAB, SAS, RATS, EViews, GAUSS, STATA, SPSS, LaTeX, Microsoft Office
Languages: Fluent in English, Native in Chinese

REFERENCES

Dr. W. Timothy Few

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Former Department Chair
Department of Business and Economics
School of Business
Edinboro University of Pennsylvania
Office Phone: (814) 732-1319
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Dr. Thomas L. Marsh

Distinguished Professor of Agricultural & Resource
Economics
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Dr. Chyi-lyi (Kathleen) Liang

W. K. Kellogg Distinguished Professor of
Sustainable Agriculture
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