

Katherine Y. Zipp

CONTACT INFORMATION

Department of Agricultural Economics, Sociology, and Education
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Last updated January 21, 2019

RESEARCH INTERESTS

Environmental and resource economics, land-use economics, spatial modeling, joint ecological-economic modeling and nonmarket valuation

EMPLOYMENT

Assistant Professor of Environmental and Resource Economics, Department of Agricultural Economics, Sociology, and Education, Pennsylvania State University (July, 2014 - present)

EDUCATION

Ph.D. – University of Wisconsin, Madison, Wisconsin (August 2014)
Agricultural and Applied Economics

- Dissertation Topic: “Spatial analysis of feedback mechanisms between environmental policies, ecosystems and behavior”

BA – Oberlin College, Oberlin, Ohio (May 2008)
Majors: Environmental Studies and Economics

- High Honors in Environmental Studies

TEACHING EXPERIENCE

Undergraduate (Community, Environment, and Development Major, CED)

CED 309: Land Use Dynamics
CED 429: Natural Resource Economics

Graduate (Agricultural, Environmental, and Regional Economics, AEREC)

AEREC 541: Resource and Environmental Economics II

REFEREED ACADEMIC JOURNAL ARTICLES

(Note: * indicates work with a graduate student as part of their research)

Shr, Y-H* and K.Y. Zipp (2019) “The Aftermath of Flood Zone Remapping: The Asymmetric Impact of Flood Maps on Housing Prices” *Land Economics* 95(2).

Zipp, K.Y., D. J. Lewis, B. Provencher, and M.J. Vander Zanden (2019) “The Spatial Dynamics of the Economic Impacts of an Aquatic Invasive Species: An Empirical Analysis” *Land Economics* 95(1): 1-18.

Jiang, W.*, K.Y. Zipp, and M. Jacobson (2018) “Economic Assessment of Landowners Willingness to Supply Energy Crops on Marginal Lands in the Northeastern of the United States.” *Biomass and Bioenergy* 113: 22-30.

Zipp, K.Y., D. J. Lewis, and B. Provencher (2017) “Does the conservation of land reduce development? An econometric-based landscape simulation with land market feedbacks” *Journal of Environmental Economics and Management* 81: 19-37.

Shortle, J., D. Abler, Z. Kaufman, and K.Y. Zipp (2016) "Simple vs. Complex: Implications of Lags in Pollution Delivery for Efficient Load Allocation and Design of Water-quality Trading Programs" *Agricultural and Resource Economics Review* 45(2):367393.

UNDER REVIEW

Jiang, W.*, K.Y. Zipp, M. Langholtz, and M. Jacobson "Modeling Spatial Dependence and Hot Spots in Landowners Willingness to Supply Bioenergy Crops in Northeast of the United States." (*Resubmitted after revisions*).

Li, X.* and K.Y. Zipp "Dynamics and Uncertainty in Land-Use Conversion for Perennial Energy Crop Production: Exploring Effects of Payments for Ecosystem Services Policies" (*Revise and Resubmit*).

Rice, W.L*, B.D. Taff, P.B. Newman, Z.D. Miller, A.L. D'Antonio, J.T. Baker, C. Monz, J.N. Newton, and K.Y. Zipp "Grand Expectations: Understanding Outcome Interference in Grand Teton National Park." (*Resubmitted after revisions*).

Zipp, K.Y., L. Zikatanov, Y. Wu, and K. Wu "Optimal management to minimize the damages caused by aquatic invasive species." (*Under Review*).

Jiang, W.*, H. Fu, M. G. Jacobson, K. Y. Zipp, and J. Jin "The Impact of Biomass Crop Assistance Program on the United States Forest Product Market: An Application of Global Forest Product Model" (*Revise and Resubmit*).

Jiang, W.*, M. Jacobson, A. Kemanian, M. Langholtz, F. Montes, K. Y. Zipp, X. Liang, and J. Jin "A Case Study Defining Economically Marginal Land for Energy Crop Production" (*Under Review*).

WORKING PAPERS

Colby, S. and K.Y. Zipp "Floodplain Housing Stock Dynamics". (*Working Paper*).

Zipp, K.Y. and Y-H. Shr "Feeling the Burn: The Optimal Timing of Prescribed Fires for Recreational Benefits." (*Working Paper*).

Zipp, K.Y. "The Net Effects of Open-Space Conservation on Ecosystem Services" (*Working Paper*).

OTHER PAPERS

Fowler, L.B., R. Baxter, S.J. Colby, M. Kelly, K. Kelly-Slatten, and K. Y. Zipp; L.D. Duke and M. Weitzel. (September 2017) "Flood Mitigation for Pennsylvanias Rural Communities: Community-Scale Impact of Federal Policies Report for the Center for Rural Pennsylvania.
<http://www.rural.palegislature.us/documents/reports/Flood-Mitigation-2017.pdf>

GRANTS RECEIVED

Co-PI "Advancing High Priority, Objectives, Strategies and Actions Identified in the Pennsylvania Aquatic Invasive Species Management Plan" U.S. Fish and Wildlife Service. \$797,949

Co-PI "Flexible Buffer Systems: Enhancing Ecosystem Services and Expanding Agricultural Options in Riparian Areas." USDA National Institute of Food and Agriculture. 01/01/2017 - 12/31/2019 \$499,500

PI "Analysis of Ecosystem service valuation and policy design of water quality improvements associated with perennial grasses and cover crops. USDT Federal Aviation Administration Center of Excellence for Alternative Jet Fuels, ASCENT. 8/1/2016 -

7/31/2017 \$200,000

Co-PI “Firescapes in the mid-Atlantic: Mismatches between social perceptions and prescribed fire use.” USDI Joint Fire Sciences Program. 08/01/2016 - 07/31/2019 \$326,646

Co-PI “Flood Mitigation for Pennsylvania’s Rural Communities: Community-Scale Impact of Federal Policies.” Center for Rural Pennsylvania. 1/20/2016 - 1/20/2017 \$50,000

PI “Analysis of Ecosystem service valuation and policy design of water quality improvements associated with perennial grasses and cover crops. USDT Federal Aviation Administration Center of Excellence for Alternative Jet Fuels, ASCENT. 8/1/2015 - 7/31/2016 \$80,000

Co-PI “Pennsylvania Natural Resources Leadership Program Pilot Project AESE Strategic Initiatives Funding. 1/1/2015 - 6/30/2015 \$5,850

GRADUATE
ADVISEES

Yau-Huo Shr (PhD 2017), Xiaogu Li (PhD expected 2020)

GRADUATE
COMMITTEES

Jiachuan Tian (PhD 2016 AEREC), Wonjoo Cho (PhD 2016 AEREC), Wei Jiang (PhD 2017 ESM), Renata Rimsaite (PhD 2017 AEREC), Wenfang Xu (PhD 2018 Mathematics), Kyra Sciaudone (MS 2018 ABE), Dong Soon Choi (PhD expected 2019 AEREC), Gregory Mitchell (MS 2020 EEFEE), William Rice (MS expected 2019, RPTM), Kodzovi Abalo (PhD expected 2020 ECON)

UNDERGRADUATE
THESIS ADVISEES

Maddy Nyblade (2018, co-advisor Honor’s Thesis Geoscience)

PENN STATE
SERVICE

Department

EEFE Graduate Curriculum Committee member (2018-Present)

CED Undergraduate Committee member (2014-Present)

Member, AEREC Exam Committee (2017-2018)

Member, AESE Social Committee (2017-2018)

Member, Search Committee to hire an Administrative Support Assistant in AESE (2017)

Member of the Search Committee to hire an Assistant Professor of Rural Sociology (2015)

ME John Award Committee member (2015)

College

Member, Committee for Energy University Renewables (2015)

University

Co-organizer, Energy and Environmental Economics and Policy Seminar Series (2017-Present)

Member, Center for Landscape Dynamics Steering Committee (2015 - Present)

Member, Committee for the Intercollege Graduate Degree Program in Energy, Environmental, and Food Economics Prospectus (2015-2017)

Member, Search Committee to hire a Director and Chief Sustainability Officer for the Sustainability Institute (2016)

Invited member of the Penn State Sustainability Institute Task Force (2015)

EXTERNAL
SERVICE

Guest Academic Editor, *PLOS-ONE*
NAREA Selected Papers Committee 2017-Present
Reviewed the USDA Economic Research Services “Major Uses of Land in the United States, 2012.”
Reviewed Selected Presentations for the Association of Environmental and Resource Economists 2017-Present
Reviewed Selected Presentations for the Agricultural and Applied Economics Association (AAEA) annual meeting 2015-Present
Organizer of a sponsored session at the Northeastern Agricultural and Resource Economics Association (NAREA) annual meetings
Organizer of a thematic session at the World Congress of Environmental and Resource Economics annual meetings in Gothenburg, Sweden 2018
Review journal articles for JAERE, Land Economics, AJAE, ARER, Ecological Economics

INVITED
PRESENTATIONS

Agricultural and Applied Economics Seminar Series, University of Georgia. “Floodplain Housing Stock Dynamics.” November 2, 2018.

Workshop on the Economics of Flooding and Coastal Erosion, London UK. “The Effects of Floodplain Remapping and Increases in Flood Insurance Premiums on Housing Markets.” June 22, 2018

Applied Economics Seminar Series, University of Delaware. “National Flood Insurance Program and Housing Prices and Supply: A User Cost of Housing Framework.” April 17, 2017

Penn State Water Resources Extension webinar “An Economic Assessment of Land-Use Changes between Food and Bioenergy Crops on Marginal Land” (presented by Wei Jiang). July 27, 2016

Agricultural and Resource Economics Seminar Series, University of Connecticut. “The Social-Ecological Dynamics of Aquatic Species Invasions on a Lake-Rich Landscape.” February 12, 2016

Stochastic Modeling and Computational Statistics seminar series, Department of Statistics, Penn State. “The Social-Ecological Dynamics of Aquatic Species Invasions on a Lake-Rich Landscape. October 30, 2015

Energy and Environmental Economics and Policy seminar series, Penn State. “Social-Ecological Dynamics of Aquatic Species Invasions on a Lake-Rich Landscape/” May 6, 2015

CONFERENCE
PRESENTATIONS

World Congress of Environmental and Resource Economists, 2018 Thematic Session “How Flood Risk Seeps into Housing Markets”: Floodplain Housing Stock Dynamics

AAEA Annual Meeting, 2018 Selected Paper (Lightning Round): Factors Affecting Farmers Adoptions of Flexible Riparian Buffers (presented by Xiaogu Li*)

NAREA Annual Meeting & Workshop, 2018 Selected Paper: Optimal spatial-dynamic management policies to minimize the damages caused by aquatic invasive species

NAREA Annual Meeting & Workshop, 2018 Selected Paper: Factors Affecting Farmers Adoptions of Flexible Riparian Buffers

NAREA Annual Meeting & Workshop, 2017 Selected Paper: Housing Prices and Flood Insurance: The Effect of an Unexpected Increase in Insurance Premiums on Housing Markets (presented by Scott Colby)

NAREA Annual Meeting & Workshop, 2017 Selected Paper: Land Use Conversion for Perennial Energy Crops Production: Dynamics and Uncertainty (presented by Xiaogu Li*)

AAEA Annual Meeting, 2017 Selected Poster: Land Use Conversion for Perennial Energy Crops Production: Dynamics and Uncertainty (presented by Xiaogu Li*)

NewBio All-Hands Meeting, 2016 Presentation: An Economic Assessment of Land-Use Changes between Food and Bioenergy Crops on Marginal Land (presented by Wei Jiang*)

Penn State Energy Days, 2016 Poster: An Economic Assessment of Land-Use Changes between Food and Bioenergy Crops on Marginal Land (presented by Wei Jiang*)

Meeting of the International Society of Forest Resource Economists, 2016 Presentation: An Economic Assessment of Land-Use Changes between Food and Bioenergy Crops on Marginal Land (presented by Wei Jiang*)

Penn State Energy and Environmental Economics and Policy Seminar, 2016 Presentation: An Economic Assessment of Land-Use Changes between Food and Bioenergy Crops on Marginal Land (presented by Wei Jiang*)

AAEA Annual Meeting, 2016 Selected Paper: Valuing complementarity between environmental goods and housing attributes with the benefit function: An application to flood hazards (presented by Yau-Huo Shr*)

NAREA Annual Meeting & Workshop, 2016 Selected Paper: Valuing complementarity between environmental goods and housing attributes with the benefit function: An application to flood hazards (presented by Yau-Huo Shr*)

NAREA & CAES Joint Annual Meeting & Workshop, 2015 Selected Paper: Social-Ecological Dynamics of Aquatic Species Invasions on a Lake-Rich Landscape

NAREA & CAES Joint Annual Meeting & Workshop, 2015 Economics of Water Quality Workshop Program: Lags in Pollution Delivery: Implications for the Design of Water Quality Trading Programs

AERE Summer Conference in San Diego, CA, 2015 Selected Presentation: Social-Ecological Dynamics of Aquatic Species Invasions on a Lake-Rich Landscape

Occasional California Workshop in Environmental and Resource Economics, 2013 Selected paper: Social-Ecological Dynamics of Aquatic Species Invasions on a Lake-Rich Landscape

AAEA Annual Meetings in Seattle, WA, 2012 Selected Presentation: Using the benefit function to value non-market goods: An application to open-space conservation

AAEA Annual Meetings in Seattle, WA, 2012 Selected Presentation: The effects of open-space conservation on ecosystems: An application of a joint ecological-economic model

AERE Summer Conference in Asheville, NC, 2012 Selected Presentation: Using the benefit function to value non-market goods: An application to open-space conservation

AERE Summer Conference in Asheville, NC, 2012 Selected Presentation: The effects of open-space conservation on ecosystems: An application of a joint ecological-economic model

Heartland Environmental and Resource Economics Workshop at Illinois in Urbana, Champaign, IL, 2011, Long Presentation: Does open space conservation increase neighboring development?

CENREP Camp Resources XVIII in Wrightsville Beach, NC, 2011, Research Sketch: Does open space conservation increase neighboring development?

AERE Summer Conference in Seattle, WA, 2011, Selected Presentation: Does open space conservation increase neighboring development?

AAEA Annual Meetings in Pittsburgh, PA, 2011, Selected Poster Tour: Modeling the effects of open space on private land

AAEA Annual Meetings in Pittsburgh, PA, 2011, Selected Poster: Market power and/or cost-efficiencies in ITQ fisheries? (with R.L.O. Cleary and C. Grainger)

HONORS AND
AWARDS

2017 ARER Best Article Award for Shortle, J., D. Abler, Z. Kaufman, and K. Y. Zipp (2016) "Simple vs. Complex: Implications of Lags in Pollution Delivery for Efficient Load Allocation and Design of Water-quality Trading Programs *Agricultural and Resource Economics Review* 45(2): 367-393.

Nominated Participant, 4th Meeting of the Nobel Laureates in Economics, Lindau, Germany, August 2011

AFFILIATIONS

Agricultural and Applied Economics Association (AAEA)

Association of Environmental and Resource Economists (AERE)

Northeastern Agricultural and Resource Economics Association (NAREA)

Allied Social Sciences Association (ASSA)

Career Advancement and Mentorship (CAM) Program mentee in NAREA, 2015

CeMENT Mentoring mentee in the American Economic Association's Committee on the Status of Women in the Economics Profession (CSWEP), 2016