

# Douglas H. Wrenn

## Curriculum Vitae

Department of Agricultural Economics, Sociology, and Education  
 The Pennsylvania State University  
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### EDUCATION

**The Ohio State University**, Columbus, Ohio, USA  
 Ph.D., Agricultural, Environmental, and Development Economics 12/2012  
 Dissertation Title: "Three Essays on Residential Land Development"  
 Advisor: Elena G. Irwin  
  
 M.A., Economics 08/2008

**Eastern Mennonite University**, Harrisonburg, Virginia, USA  
 B.S., Economics and Business Administration (Cum Laude) 04/2002

### PROFESSIONAL APPOINTMENTS

**The Pennsylvania State University**, Department of Agricultural Economics, Sociology, and Education  
  
 Assistant Professor, Environmental and Resource Economics 07/2013-06/2019  
 Associate Professor, Environmental and Resource Economics 07/2019-Present

**The Ohio State University**, Department of Agricultural, Environmental, and Development Economics  
  
 Postdoctoral Researcher (Advisor: Elena G. Irwin) 01/2013-07/2013  
 Graduate Research Assistant 08/2007-12/2012

**Mennonite Central Committee**, Ukraine/Formal Soviet Union 02/2003-04/2006  
 Coordinator of Economic Development and Rural Lending

### PUBLICATIONS (\* Indicates student co-authored paper)

#### Peer-Reviewed Journal Articles

1. Zaveri, Esha\*, **Douglas H. Wrenn**, and Karen Fisher-Vanden. 2020. "The Impact of Water Access on Short-Term Migration in Rural India." *Australian Journal of Agricultural and Resource Economics*. 64(2): 505-532.
2. **Wrenn, Douglas H.**, Klaiber, H. Allen and David A. Newburn. 2019. "Price Based Policies for Managing Residential Development: Impacts on Water Quality." *Resource and Energy Economics*. 58 (November): 101-115.

3. **Wrenn, Douglas H.**, Junjian Yi, and Bo Zhang\*. 2019. "Housing Prices and Marriage Entry in China." *Regional Science and Urban Economics*. 74 (January): 118-130.
4. **Wrenn, Douglas H.** and H. Allen Klaiber. 2019. "Space and Time: A Competing Risks Analysis of the Impact of Property Taxes and Zoning Restrictions on Residential Development." *International Economic Review*. 60(3): 1097-1130.
5. Hoy, Kyle\* and **Douglas H. Wrenn**. 2018. "Unconventional Energy, Taxation, and Interstate Welfare: An Analysis of Pennsylvania's Severance Tax Policy." *Energy Economics*. 73 (June): 53-65.
6. Towe, Charles A., H. Allen Klaiber, and **Douglas H. Wrenn**. 2017. "Not My Problem: Growth Spillovers from Uncoordinated Land Use Policy." *Land Use Policy*. 67 (September): 679-689.
7. Zhang, Wendong, **Douglas H. Wrenn**, and Elena G. Irwin. 2017. "Spatial Heterogeneity, Accessibility, and Zoning: An Empirical Examination of Leapfrog Development." *Journal of Economic Geography*. 17(3): 547-570.
8. **Wrenn, Douglas H.**, H. Allen Klaiber, and David A. Newburn. 2017. "Confronting Price Endogeneity in a Duration Model of Residential Subdivision Development." *Journal of Applied Econometrics*. 32(3): 661-682.
9. Zaveri, Esha\*, Danielle Grogan, Karen Fisher-Vanden, Steve Frolking, Richard Lammers, **Douglas H. Wrenn**, Alexander Prusevich, and Robert Nicholas. 2016. "Invisible Water, Visible Impact: Groundwater Use and Indian Agriculture under Climate Change." *Environmental Research Letters*. 11(8):1-13.
10. **Wrenn, Douglas H.**, H. Allen Klaiber, and Edward C. Jaenicke. 2016. "Unconventional Shale Gas Development, Risk Perceptions, and Averting Behavior: Evidence from Bottled Water Purchases." *Journal of the Association of Environmental and Resource Economists*. 3(4): 779-817. (Lead article)
11. **Wrenn, Douglas H.** and Elena G. Irwin. 2015. "Time is Money: An Empirical Examination of the Effects of Regulatory Delay on Residential Subdivision Development." *Regional Science and Urban Economics*. 51: 25-36.
12. **Wrenn, Douglas H.**, Timothy W. Kelsey, and Edward C. Jaenicke. 2015. "Resident versus Non-Resident Employment Impacts Associated with Marcellus Shale Development." *Agricultural and Resource Economic Review*. 44/2 (August 2015) 1-19. (Lead Article; Winner, Best Article Award, 2016)
13. **Wrenn, Douglas H.** and Abdoul G. Sam. 2014. "Geographically and Temporally Weighted Likelihood Regression: Exploring the Spatiotemporal Determinants of Land Use Change." *Regional Science and Urban Economics*. 44: 60-74.
14. **Wrenn, Douglas H.** and Elena G. Irwin. 2012. "How Do Land Use Policies Influence Fragmentation? An Econometric Model of Land Development with Spatial Simulation" *Environmental Economics*. 3: 82-96.

#### Other Journal/Newsletter Outputs

1. Shortle, James, David Abler, Seth Blumsack, Jon Duncan, Corina Fernandez, Klaus Keller, Mahkameh Zarekarizi, Michael Nassry, Rob Nicholas, Matt Royer, Douglas H. Wrenn. "Pennsylvania Climate Impacts Assessment Update." 2019. *Environment and Natural Resources Institute*. Pennsylvania State University.

2. Fetter, T. Robert, Andrew L. Steck, Christopher D. Timmins, and **Douglas H. Wrenn**. 2019. "Fracking Disclosures by Firms Spur Productivity, Slow Innovation." *The NBER Digest*. April.
3. Fetter, T. Robert, Andrew L. Steck, Christopher D. Timmins, and **Douglas H. Wrenn**. 2017. "Learning by Viewing? Social Learning, Regulatory Disclosure, and Firm Productivity in Shale Gas." *Academy of Management Proceedings*. January: 17515. (Abstract Publication from Annual Meetings)
4. **Wrenn, Douglas H.** 2014 (June). "Shale Development and Employment in Pennsylvania." Marcellus Employment." *North American Regional Science Council*. 2(1): 6.
5. Elena G. Irwin and **Douglas H. Wrenn**. 2012 (November). "Developing Spatially Disaggregate Models of Land Change for Policy Simulation." *UGEC Viewpoints*. 8: 41-44. Published by the Urbanization and Global Environmental Change Project, International Human Dimensions Programme.

### Book Chapters

1. Irwin, Elena G., Geoffrey L. Buckley, Matthew Gnagey, David Newburn, Erin Pierce, and **Douglas H. Wrenn**. 2018. "Land Use Dynamics: Regulations and Norms." S. Pickett et al. (eds.), *Science for Sustainable City: Insights from Baltimore School of Urban Ecology*. (Forthcoming)
2. Irwin, Elena G., and **Douglas H. Wrenn**. 2014. "An Assessment of Empirical Methods for Modeling Land Use." In: J.M. Duke and J. Wu (ed.), *the Oxford Handbook of Land Economics*. Oxford Univ. Press.

### Under Review/Submitted

1. Hoy, Kyle A.\* and **Douglas H. Wrenn**. 2020. "The Effectiveness of Taxes in Decreasing Candy Consumption." (Revisions Requested: *Food Policy*)
2. Zhang, Bo\*, **Douglas H. Wrenn**, and Edward C. Jaenicke. 2020. "House Prices, Food Purchases, and Diet Quality." (Submitted: *Applied Economic Perspectives and Policy*)
3. Fetter, T. Robert, Andrew L. Steck, Christopher D. Timmins, and **Douglas H. Wrenn**. 2020. "Learning by Viewing? Social Learning, Regulatory Disclosure, and Firm Productivity in Shale Gas." (Submitted: *Review of Economic Studies*)

### Manuscripts/Working

1. Olmstead, Sheila, **Wrenn, Douglas H.**, and Julian Plough. 2020. "Shifting Flood Risk Perceptions and Housing Market Outcomes: A Multi Regional Analysis, Houston, TX and Tampa Bay, FL."
2. Dong, Xiao, H. Allen Klaiber, Sathya Gopalakrishnan, and **Douglas H. Wrenn**. 2020. "Silence of Falling Trees: Hidden Carbon Losses from Shale Gas Development." (Manuscript)
3. Kousky, Carolyn and **Douglas H. Wrenn**. 2018. "The Sociodemographics of Flood Risk."
4. Jayasekera, Deshamithra H.W., Douglas H. Wrenn, and Karen Fisher-Vanden. 2020. "Worker Location Decisions by Skill Level: The Welfare Impacts of Weather Shocks and Industry Composition on the Demand for High and Low Skill Labor." (Manuscript).
5. Peklak, Darrah and Douglas H. Wrenn. 2020. "Is All Risk Created Equal? Localized Flood Risk Modeling Using Quantile Regression."

**TEACHING****Ohio State University**

Short Course: Using R for Econometric Analysis	Spring, 2011
Development Economics (AED Economics/International Studies 535)	Spring, 2010

**Pennsylvania State University****Undergraduate**

Introductory Environmental and Resource Economics (CED 201)	Spring, 2014-Present
Honors Environmental and Resource Economics (CED 297)	Spring, 2018-2019
Guest Lecture: AEREC 590	Fall 2013-2017
Guest Lecture: AEREC 597A – Topics in Environmental Economics	Fall, 2014
Guest Lecture: AEREC 597 – Workshop on Scanner Data	Spring 2018

**Graduate**

Applied Welfare Analysis (AEREC 597A)	Spring, 2014-2015
Applied Microeconometrics II (AEREC 597A)	Spring, 2016-Present

**INVITED SEMINARS**

1. Pennsylvania Department of Environmental Protection, “Pennsylvania Climate Impacts Assessment Update.” Harrisburg, PA. February 25<sup>th</sup>, 2020.
2. Pennsylvania State University, Water Insights Seminar Series, “Price Based Policies for Managing Residential Development and Impacts on Water Quality.” April 3<sup>rd</sup>, 2018.
3. Andrew Young School of Policy Studies, Department of Economics, “Price Based Policies for Managing Residential Development and Impacts on Water Quality.” January 26<sup>th</sup>, 2018.
4. Department of Business and Economics, Eastern Mennonite University, “Learning by Viewing? Social Learning, Regulatory Disclosure, and Firm Productivity in Shale Gas.” October 5<sup>th</sup>, 2017.
5. Smeal College of Business, Pennsylvania State University, “Learning by Viewing? Social Learning, Regulatory Disclosure, and Firm Productivity in Shale Gas.” September 27<sup>th</sup>, 2017.
6. Department of Applied Economics, Oregon State University, “Learning by Viewing? Social Learning, Regulatory Disclosure, and Firm Productivity in Shale Gas.” May 19<sup>th</sup>, 2017.
7. Department of Agricultural and Applied Economics, Virginia Tech, “Price-Based Land Use Policies with Heterogeneous Development Outcomes: Impacts on Urban Land Use Patterns.” December 2<sup>nd</sup>, 2016.
8. Department of Economics, Binghamton University, “Confronting Price Endogeneity in a Competing Risks Model of Residential Subdivision Development.” September 30<sup>th</sup>, 2016.

- Center for Urban Environmental Research and Education (CUERE), University of Maryland Baltimore County, Seminar Series, "Local Interactions versus Regulatory Delay: Evaluating Competing Explanations for Residential Land Development." November 22, 2013.

## **CONFERENCES**

### **Local/Regional**

- Zhang, Bo, Douglas H. Wrenn, and Edward C. Jaenicke. "House Prices, Food Purchases, and Diet Quality." Energy and Environmental Economics and Policy Seminar Series, Pennsylvania State University, October 11<sup>th</sup>, 2017.
- Wrenn, Douglas H., Timothy W. Kelsey, and Edward C. Jaenicke. 2016. "Resident versus Non-Resident Employment Impacts Associated with Marcellus Shale Development." Energy Days Poster Presentation, Pennsylvania State University, May 19<sup>th</sup>, 2016.
- Hoy, Kyle and Douglas H. Wrenn. "Unconventional Energy, Taxation, and Interstate Welfare: An Analysis of Pennsylvania's Severance Tax Policy." Energy and Environmental Economics and Policy Seminar Series, Pennsylvania State University, October 19<sup>th</sup>, 2016.
- Jaenicke, Edward C., Douglas H. Wrenn, and H. Allen Klaiber. "Unconventional Shale Gas Development, Risk Perceptions, and Averting Behavior: Evidence from Bottled Water Purchases." Water Conference, Pennsylvania State University Water Conference, April 22<sup>nd</sup>, 2015.

### **Domestic**

- Fetter, T. Robert, Andrew Steck, Christopher D. Timmins, and Douglas H. Wrenn. "Learning by Viewing? Social Learning, Regulatory Disclosure, and Firm Productivity in Shale Gas." Selected paper for Meetings of American Economic Association, San Diego, CA, January 3<sup>rd</sup>-5<sup>th</sup>, 2020.
- Jayasekera, Deshamithra HW, Douglas H. Wrenn, and Karen Fisher-Vanden. "Worker Location Decisions by Skill Level: The Welfare Impacts of Weather Shocks and Industry Composition on the Demand for High and Low Skill Labor." Selected paper presented at the Annual Meetings of the Agricultural and Applied Economics Association, Atlanta, GA, July 21<sup>st</sup>-23<sup>rd</sup>, 2019.
- Wrenn, Douglas H., Sheila Olmstead, and Julian Plough. "Floods, Shifting Risk Perceptions, and Property Prices." Selected paper for 7<sup>th</sup> Annual Summer Meetings of the Association of Environmental and Resource Economists, Incline Village, NV, May 30<sup>th</sup>-31<sup>st</sup>, 2019.
- Dong, Xiao, H. Allen Klaiber, Sathya Gopalakrishnan, Douglas H. Wrenn. "The Silence of Falling Trees: Hidden Forest Loss from Shale Gas Development." Selected paper presented at the Annual Meetings of the Agricultural and Applied Economics Association, Washington, DC, July 30<sup>th</sup>-August 1<sup>st</sup>, 2018.
- Wrenn, Douglas H. Allen Klaiber, and David A. Newburn. "Price Based Policies for Managing Residential Development: Impacts to Water Quality." Selected paper presented at the Annual Meetings of the Agricultural and Applied Economics Association, Washington, DC, July 30<sup>th</sup>-August 1<sup>st</sup>, 2018.
- Zaveri, Esha, Douglas H. Wrenn, and Karen Fisher-Vanden. "The Impact of Water Access on Short-Term Migration in Rural India." Selected paper presented at the Annual Meetings of the Agricultural and Applied Economics Association, Chicago, Illinois, August 5<sup>th</sup>-August 7<sup>th</sup>, 2017.

7. Jaenicke, Edward C. and Douglas H. Wrenn. "Changes in Retail Organic Price Premiums from 2004 to 2010." Selected paper presented at the Annual Meetings of the Agricultural and Applied Economics Association, Chicago, Illinois, August 5<sup>th</sup>-August 7<sup>th</sup>, 2017.
8. Zhang, Bo, Douglas H. Wrenn, and Edward C. Jaenicke. "The Great Recession, Healthy Food Purchases, and Obesity." Selected paper for Northeastern Agricultural and Resource Economics Association Annual Meeting, Washington, DC, June 11<sup>th</sup>-14<sup>th</sup>, 2017.
9. Wrenn, Douglas H. Allen Klaiber, and David A. Newburn. "Price Based Policies for Managing Residential Development: Impacts to Water Quality." Selected paper for 6<sup>th</sup> Annual Summer Meetings of the Association of Environmental and Resource Economists, Pittsburgh, Pennsylvania, May 31<sup>st</sup>-June 2<sup>nd</sup>, 2017.
10. Fetter, T. Robert, Andrew L. Steck, Christopher D. Timmins, and Douglas H. Wrenn. "Learning by Viewing? Social Learning, Regulatory Disclosure, and Firm Productivity in Shale Gas." Selected paper for 6<sup>th</sup> Annual Summer Meetings of the Association of Environmental and Resource Economists, Pittsburgh, Pennsylvania, May 31<sup>st</sup>-June 2<sup>nd</sup>, 2017.
11. Wrenn, Douglas H., H. Allen Klaiber, and Edward Jaenicke. "Unconventional Shale Gas Development, Risk Perceptions, and Averting Behavior." Selected paper presented at the Annual Meetings of the Agricultural and Applied Economics Association, Boston, Massachusetts, July 31<sup>st</sup>-August 2<sup>nd</sup>, 2016.
12. Zaveri, Esha, Douglas H. Wrenn, and Karen Fisher-Vanden. "Water in the Balance: The Impact of Water Infrastructure on Agricultural Adaptation to Rainfall Shocks in India." Selected paper presented at the Annual Meetings of the Applied and Agricultural Economic Association, Boston, Massachusetts, July 31<sup>st</sup>-August 2<sup>nd</sup>, 2016.
13. Wrenn, Douglas and H. Allen Klaiber. "Meeting Water Quality Standards by Altering Land Use Patterns: An Analysis of Price vs. Quantity Based Policy Instruments." Selected paper for 5<sup>th</sup> Annual Summer Meetings of the Association of Environmental and Resource Economists, Breckenridge, CO, June 9-11, 2016.
14. Wrenn, Douglas H., H. Allen Klaiber, and David A. Newburn. "Confronting Endogeneity in a Duration Model of Residential Subdivision Development." Selected paper presented at the Annual Meetings of the Agricultural and Applied Economics Association, San Francisco, CA, July 26-28, 2015.
15. Hoy, Kyle and Douglas H. Wrenn. "Energy Demand and Severance Taxation in Pennsylvania." Selected paper for Northeastern Agricultural and Resource Economics Association Annual Meeting, Newport, RI, June 28<sup>th</sup>-30<sup>th</sup>, 2015.
16. Zaveri, Esha, Danielle S. Grogan, Karen Fisher-Vanden, Steve Frolking, and Douglas H. Wrenn. "Adaptability of Irrigation to Changing Monsoon in India: How Far Can We Go?" Selected paper for Northeastern Agricultural and Resource Economics Association Annual Meeting, Newport, RI, June 28<sup>th</sup>-30<sup>th</sup>, 2015.
17. Wrenn, Douglas H., H. Allen Klaiber, and Edward Jaenicke. "Unconventional Shale Gas Development, Risk Perceptions, and Averting Behavior: Evidence from Bottled Water Purchases." Selected paper for the 4<sup>th</sup> Annual Summer Meetings of the Association of Environmental and Resource Economists, San Diego, CA, June 3-5, 2015.
18. Wrenn, Douglas H., H. Allen Klaiber, and David A. Newburn. "Confronting Endogeneity in a Duration Model of Residential Subdivision Development." Selected paper presented at the 61<sup>st</sup> Annual North

American Meetings of the Regional Science Association International, Washington, D.C., November 12-14, 2014.

19. Zaveri, Esha, Karen Fisher-Vanden, Douglas H. Wrenn, and Robert E. Nicholas. "Adapting to Monsoon Variability in India: The Case for Irrigation." Selected paper for Northeastern Agricultural and Resource Economics Association Annual Meeting, Morgantown, WV, June 1<sup>st</sup>-3<sup>rd</sup>, 2014.

### **International**

1. Wrenn, Douglas H., Elena G. Irwin, and David A. Newburn. "The Structural Effects of Zoning in Residential Land Markets." Selected paper for the 3rd Annual Summer Meetings of the Association of Environmental and Resource Economists, Banff, Alberta, Canada, June 6-8, 2013.

### **HONORS AND AWARDS**

1. Winner, Best Article Award, Agricultural and Resource Economics Review, Northeastern Agricultural and Resource Economics Association, (2016).
2. Winner, 27th Charles M. Tiebout Prize in Regional Science, Western Regional Science Association, (2013).
3. Winner, North American Regional Science Council (NARSC) Graduate Student-Led Paper Competition, (2012).

### **GRANTS**

#### **Approved/Funded**

1. "Pursuing Opportunities for Long-Term Arctic Resilience for Infrastructure and Society (POLARIS)." National Science Foundation. Program PI: Guangqing Chi. Role: Co-PI. Total Amount: \$3,000,000. Dates: 01/01/2020-12/31/2023.
2. "Thriving Agricultural Systems in Urbanized Landscapes." U.S. Department of Agriculture. Program PI: David Ablter. Role: Co-PI. Total Amount: \$9,986,159. Dates: 04/01/2019-03/31/2024.
3. "Pennsylvania 2018 Climate Change Impact Assessment". Pennsylvania Department of Environmental Quality (DEP). Program PI: James Shortle. Role: Co-PI investigating impact of extreme weather on infrastructure in Pennsylvania. Total Amount: \$91,403 Dates: 07/01/2019-12/31/2019.
4. "A Multi-Model, Multi-Scale Research Program in Stressors, Responses, and Coupled Dynamics and the Energy-Water-Land Nexus and for Concentrated, Interdependent Infrastructures." Penn State University-Stanford University-Department of Energy. Program PI: John Weyant and Karen Fisher-Vanden. Role: Co-PI. PSU Amount: \$8,925,155. Dates: 8/1/2016-7/30/2021.
5. Horace T. Woodward Faculty Development Fund in Agricultural Science (Travel Grant). Pennsylvania State University. Amount: \$1,815. Dates: 07/2017-06/2018.
6. "How Does an Exogenous Change in Retail Market Structure and Other Food Environment Characteristics Affect the Healthfulness of Consumer Food Purchases?" USDA Economic Research Service. PI: Edward C. Jaenicke. Role: Co-PI. Total Amount: \$60,000. Dates: 09/01/2016-08/31/2018.

7. Horace T. Woodward Faculty Development Fund in Agricultural Science (Travel Grant). Pennsylvania State University. Amount: \$1,775. Dates: 07/2016-06/2017.
8. “Modeling Residential Land and Housing Supply and Integration of Structural Urban Demand and Supply Models.” Cooperative Agreement, U.S. Forest Service USDA Northern Research Station and the Baltimore Ecosystem Study (BES) Long-Term Ecological Research Program. PI: Douglas H. Wrenn. Amount: \$25,000. Dates: 07/01/2015-01/31/2017.
9. “A Household-Level Longitudinal Investigation into the Food Environment’s Impact on Food and Behavior and Health.” SEED Grant Proposal, Pennsylvania State University. Program PI: Jennifer Van Hook. Role: Co-PI. Amount: \$20,000. Dates: 06/1/2015-10/31/2016.
10. Horace T. Woodward Faculty Development Fund in Agricultural Science (Travel Grant). Pennsylvania State University. Amount: \$1,400. Dates: 07/2014-06/2015.

## **SERVICE**

### **Reviewer – Journals**

American Journal of Agricultural Economics  
 Applied Economic Perspectives and Policy  
 Demography  
 Ecological Economics  
 Energy Economics  
 Environmental and Resource Economics  
 Growth and Change  
 Journal of the Association of Environmental and Resource Economists  
 Journal of Environmental Economics and Management  
 Journal of Regional Science  
 Land Economics  
 Land Use Policy  
 National Science Foundation  
 Regional Science and Urban Economics  
 Review of Environmental Economics and Policy

### **Reviewer – Papers, Abstracts, and Theses for Professional Meetings**

Northeastern Agricultural and Resource Economics Association Thesis Award	2015-2017
Agricultural and Applied Economics Association (AAEA)	2017-Present
Association of the Environmental and Resource Economists (AERE)	2016-Present
Topics Leader – AAEA Summer Meetings – Econometrics and Statistics	2018-2020

### **Graduate Student Advising**

2013-2016	Esha Zaveri (Post-Doc, Stanford University, 2016-2018; World Bank, 2018-Present)
2014-2017	Kyle Hoy (Assistant Professor, Shepherd University, 2017-Present)
2015-2019	Bo Zhang
2016-Present	Harshanee Jayasekera
2018-2020	Darrah Peklak (Master’s) (Standard and Poor’s)

### **Dissertation Committee**



2014-2016	Iryna Demko (Post-Doc, the Ohio State University, 2016-2018; Research Associate, Cleveland State University, 2018-Present)
2015-2017	Ben Scharadin (Lecturer, Washington and Lee University, 2017-Present)
2016-2018	Aaron Cook (Lecturer, Penn State University)
2018-2019	Zefeng Dong (Well Fargo)
2016-Present	Dong Soon Choi
2018-2020	Yang Yu (Assistant Professor, Montana State University)
2018-2020	Xuan Chen

### **Outside Committee Member**

2016-2019	Hamid Firooz (Economics Department)
2016-2019	Hamed Atrianfar (Economics Department)
2017-Present	Oladipo Ositelu (Energy and Mineral Engineering)
2019-Present	Terrence O'Brien (Smeal College of Business)
2019-Present	Lu Yang (Smeal College of Business)
2020-Present	Junghee Choi (Higher Education)
2020-Present	Julian Plough (UT-Austin, Public Policy)
2020-Present	Kelvin Amon (Mississippi State, Agricultural Economics)
2020-Present	Rui Wan (Smeal College of Business)

### **Departmental Service: Agricultural Economics, Sociology, and Education, PSU**

2014-2017	Energy and Env. Economics and Policy Seminar Committee
2014	AEREC PhD First-Year Qualifying Exam Committee
2013-2014	CED Committee
2018-Present	EEFE PhD First-Year Qualifying Exam Committee, Chair
2014-Present	EEFE Graduate Committee
2015-2019	AESE (Ag. Econ.) Hiring Committee

### **Affiliations**

08/2013-Present	Institute for Energy and the Environment (Penn State)
08/2016-Present	Population Research Institute (Penn State)
01/2020-Present	First Street Foundation Flood Lab

### **PROFESSIONAL AFFILIATIONS**

Agricultural and Applied Economics Association (AAEA)  
 American Economic Association (AEA)  
 Association of Environmental and Resource Economists (AERE)