

## **ELHAM (ZOHREH) ERFANIAN**

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### **RESEARCH INTERESTS**

- Environmental and Natural Resource Economics
- Regional and Urban Economics
- Health Economics
- Energy Economics
- Applied Spatial Econometrics

### **EDUCATION**

<b>Ph.D. candidate in Natural Resource Economics</b>	<b>2015- Expected August 2019</b>
- West Virginia University	
<b>Master of Science in Agricultural and Resource Economics</b>	<b>2014</b>
- West Virginia University	
<b>Master of Science in Agricultural Economics</b>	<b>2007</b>
- Tehran University (Iran)	
<b>Bachelor of Science in Agricultural Economics</b>	<b>2000</b>
- Kerman University (Iran)	

### **DISSERTATION**

**Title:** "Three Essays on Utilizing Spatial Econometrics in Natural Resource Economics related to Water, Health, and Energy"

**Main adviser:** Dr. Alan R. Collins

**Other committee members:** Dr. Randall W. Jackson, Dr. Daniel S. Grossman, Dr. Donald J. Lacombe, Dr. Michael P. Strager

### **WORK EXPERIENCE**

<b>Graduate Research Assistant</b>	
- Regional Research Institute (WVU)	06/2013- Present
<b>Economics Consultant</b>	
- Permanent Management of Ariayian Land Corporation (Iran)	07/2007- 07/2011
<b>Director</b>	
- Department of Management- Molana University (Iran)	09/2010-09/2011
<b>Economics Intern</b>	
- Bureau of Planning and Budget (Iran)	05/1999-08/1999

## **TEACHING EXPERIENCE**

<b>Introductory Agricultural and Agribusiness Economics</b> (WVU)	01/2019-05/2019
<b>Applied Demand Analysis (Co-teaching)</b> (WVU)	08/2016-12/2016
<b>Agricultural Economics</b> (Iran)	09/2007-07/2012
<b>Agricultural and Development Economics</b> (Iran)	09/2007-07/2012
<b>Marketing of Agricultural Products</b> (Iran)	09/2007-07/2012
<b>Development Economics</b> (Iran)	09/2007-07/2012
<b>International Economics</b> (Iran)	09/2007-07/2012
<b>Microeconomics</b> (Iran)	09/2007-07/2012
<b>Macroeconomics</b> (Iran)	09/2007-07/2012
<b>Production Management</b> (Iran)	09/2007-07/2012
<b>Research Methods</b> (Iran)	09/2007-07/2012
<b>Operation Research</b> (Iran)	09/2007-07/2012
<b>Accounting</b> (Iran)	09/2007-07/2012

## **JOURNAL PUBLICATIONS**

1. Jackson, R., Neto, A. B. F., **Erfanian, E.** & Járosi, P. (2019). Woody Biomass Processing and Rural Regional Development. *Economic Development Quarterly*. DOI.org/10.1177/0891242419826236
2. **Erfanian, E.**, Collins, A. R. & Grossman, D. (2019). The Impact of Naloxone Access Laws on Opioid Overdose Deaths in the U.S. *The Review of Regional Studies*. 49(1):45-72.
3. **Erfanian, E.** & Collins, A. R. (2018). Charges for Water and Access: What Explains the Differences among West Virginian Municipalities? *Water Economics and Policy*. 1850017. DOI: 10.1142/S2382624X18500170.
4. Jackson, R., Neto, A. B. F., & **Erfanian, E.** (2018). Woody Biomass Processing: Potential Economic Impacts on Rural Regions. *Energy Policy*. 115, 66-77.
5. **Erfanian E.** & Neto, A. B. F. (2017). Scientific Output: Labor or Capital Intensive? An Analysis for Selected Countries. *Scientometrics*, 112(1), 461-482.
6. **Erfanian E.** (2015). Book Review: Environmental & Development Economics: Essays in Honour of Sir Partha Dasgupta by Barrett, Mäler, and Eric S. Maskin. *The Review of Regional Studies*. 45(2).
7. Hall, J., **Erfanian, E.**, Stair, C. (2016). Voting Behavior on Carbon Pollution from Power Plants. *Oil, Gas & Energy Quarterly*. 64(4), 707-710.
8. Shahbazi, H.& **Erfanian, Z.** (2009). Estimation of Welfare Loss Derived by Monopoly in Iran Milk Industry, *Journal of Agricultural Economics and Development*. No 65. (In Persian)
9. Hosseini, S. & **Erfanian, Z.** (2008). Modeling the Effects of Advertising on the Demand for Dairies in Iran (Case Study: Iran Milk Industries), *Journal of Iranian Agricultural Science and Industries Research*. No 39. (In Persian)

## **WORKING PAPERS**

1. **Erfanian, E.** & Collins, A. R. (2019). Air Quality and Asthma Hospitalization: Evidence of PM<sub>2.5</sub> Concentrations in Pennsylvania Counties. RRI Working Paper 2019-01. Available at: Regional Research Institute website: <http://rri.wvu.edu/wp-content/uploads/2019/03/Asthma.pdf>

2. Alzahrani, F., Collins, A. R., & **Erfanian, E.** (2019). Drinking Water Quality Impacts on Health Care Expenditures in the United States. RRI Working Paper 2019-02. Available at: Regional Research Institute website: <http://rri.wvu.edu/wp-content/uploads/2019/04/WaterQuality.pdf>

## **RESEARCH IN PROGRESS**

1. Cushing, B., Tomas Sayago Gomez, J., & **Erfanian, E.** The Impacts of Oil and Gas Developments on the Opioids Overdose Deaths in the U.S. To be submitted to *The Review of Regional Studies*.
2. **Erfanian, E.**, Jackson, R., & Pokharel, S. B. Regional Impacts of Prescription Drug Monitoring Programs (PDMPs) on U.S. Drug Overdose Deaths. To be submitted to the *Journal of Regional Science*.
3. **Erfanian, E.** & Chen, J. Long-term Debt in Water Utilities: Does the Ownership Matter? Evidence of West Virginian's Water Utilities. To be submitted to *Water Economics and Policy*.
4. Alzahrani, F., Collins, A. R., & **Erfanian, E.** Water Quality Impact on Health Care Expenditures in the United States. To be submitted to *Water Resource Research*.
5. Court, Ch. & **Erfanian, E.** Water and the Regional Studies. To be submitted to *The Review of Regional Studies*.
6. Chikish, Y. & **Erfanian, E.** Gun Ownership and Crimes. To be submitted to the *Journal of Quantitative Criminology*.
7. Collin Hodges, **Erfanian, E.**, & Stair, C. Natural Gas Fracking and Water Quality. To be submitted to *Water Economics and Policy*.
8. **Erfanian, E.** STDs in the United States and Public Health Policies. To be submitted to the journal of *Sexually Transmitted Infections*.

## **CONFERENCE PRESENTATIONS**

1. **Erfanian E.**, Jackson, R., Pokharel, S. B. (2018). Regional Impacts of Prescription Drug Monitoring Programs (PDMPs) on U.S. Drug Overdose Deaths. Presented at Southern Regional Research Association, especial session on opioid crisis. D.C. (Presented by Erfanian) April 2019.
2. Cushing, B., Tomas Sayago Gomez, J., & **Erfanian, E.** The Impacts of Oil and Gas Developments on the Opioids Overdose Deaths in the U.S. Presented at Southern Regional Research Association, especial session on opioid crisis. D.C. (Presented by Cushing and Gomez) April 2019.
3. **Erfanian E.**, Jackson, R., Pokharel, S. B. (2018). Regional Impacts of Prescription Drug Monitoring Programs (PDMPs) on U.S. Drug Overdose Deaths. Presented at North American Regional Science Council. San Antonio TX. (Presented by Erfanian) November 2018.
4. **Erfanian E.**, Jackson, R., Pokharel, S. B. (2018). Regional Impacts of Prescription Drug Monitoring Programs (PDMPs) on U.S. Drug Overdose Deaths. Presented at Southern Demographic Association. Durham NC. ((Presented by Erfanian) October 2018.
5. **Erfanian E.**, Collins, A., Grossman, D. (2018). The Impact of Naloxone Access Laws on Opioid Overdose Deaths in the U.S. Presented at Southern Regional Research Association, especial session on opioid crisis. Philadelphia PA. 2018. (Presented by Erfanian) March 2018.
6. **Erfanian E.** (2018). Ambient Air Pollution and Asthma Hospitalization: Evidence of Pennsylvania Counties. Presented at Southern Regional Research Association. Philadelphia PA. 2018. (Presented by Erfanian) March 2018.
7. **Erfanian E.** and Chen, J. (2018). Long-Term Debt in Water Utilities: Does Ownership Matter? Evidence of West Virginia Utilities. The 6th University of Florida Water Institute Symposium. Gainesville FL. 2018. (Presented by Erfanian) February 2018.
8. **Erfanian E.**, Collins, A., Grossman, D. (2017). The Impact of Naloxone Access Laws on Opioid Overdose Deaths in the U.S. Presented at Southern Demographic Association. Morgantown WV. 2017. (Presented by Erfanian) October 2017.

9. **Erfanian E.**, Collins, A., Grossman, D. (2017). Naloxone Access Law and Opioid Overdose in the U.S. Presented at Southern Regional Science Association. Memphis TN. (Presented by Erfanian) March/April 2017.
10. **Erfanian E.**, Collins, A., Grossman, D. (2017). Naloxone Access Law and Opioid Overdose in the U.S. Presented at Annual Midwest Graduate Student Summit 2017. Columbus OH. (Presented by Erfanian) April 2017.
11. **Erfanian E.**, Collins, A. (2016). Water Utility Pricing and Minimum Charges: What Explains the Differences? Evidence of Municipalities in West Virginia. Presented at Southern Regional Science Association. D.C. (Presented by Erfanian) March/April 2016.
12. **Erfanian E.**, Collins, A. (2016). Water Utility Pricing and Minimum Charges: What Explains the Differences? Evidence of Municipalities in West Virginia. Presented at Northeast Agricultural and Resource Economics Association. Bar Harbor ME. (Presented by Collins) June 2016.
13. **Erfanian E.**, Collins, A. (2016). Water Utility Pricing and Minimum Charges: What Explains the Differences? Evidence of Municipalities in West Virginia. Presented at North American Regional Science Council. Minneapolis MN. (Presented by Erfanian) November 2016.
14. **Erfanian E.**, Neto, A. (2016). Scientific output: Labor or Capital Intensive? An Analysis for Selected Countries. Presented at Academy of Economics and Finance. Charleston SC. (Presented by Neto)
15. Kaboli, H., **Erfanian, Z.** (2010). Economic Analysis of Range Management Projects, Case Study: Bar Aftab. 4<sup>th</sup> Conference of Natural Recourses of Iran. Tehran Iran. (In Persian) (Presented by Kaboli)

## **AWARDS AND HONORS**

- Co-recipient of the award for Best Paper in Economics by a Graduate Student at the Academy of Economy and Finance. 54th annual conference. February 2016. Charleston, SC.
- Recipient of the Thomas F. Torries Outstanding Ph.D. Paper award. School of Natural Resource. West Virginia University. May 2017.
- Graduate Resource Economics Club Vice President, West Virginia University (2015-2017)

## **SKILLS (MODELING and SOFTWARE)**

**ECONOMICS:** Spatial Econometrics  
Time Series Analysis

**SOFTWARES:** Matlab, R, EViews  
GIS, GeoDa, Python,  
GitHub

## **AFFILIATIONS**

- Southern Regional Science Association (SRSA)
- Northern Regional Science Association (NARSC)
- Regional Science Association International (RSAI)
- American Economic Association (AEA)
- Agricultural and Applied Economics Association (AAEA)
- Southern Demography Association (SDA)

## **REFERENCES**

**Alan R. Collins**

Professor of Resource Economics and Management

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