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EDUCATION

West Virginia University, Morgantown, WV

Ph.D. in Natural Resource Economics 2019

- Dissertation Title: "Three Essays on Utilizing Spatial Econometrics in Natural Resource Economics related to Water, Health, and Energy"
- Committee: Alan R. Collins (chair), Randall W. Jackson, Daniel S. Grossman, Donald J. Lacombe, Michael P. Strager

West Virginia University, Morgantown, WV

Master of Science in Agricultural and Resource Economics 2014

University of Tehren, Tehran, Iran

Master of Science in Agricultural Economics 2007

University of Kerman, Kerman, Iran

Bachelor of Science in Agricultural Economics 2000

WORK EXPERIENCE

Graduate Research Assistance

Regional Research Institute (WVU) May 2013–August 2019

Economics Consultant

Permanent Management of Ariayian Land Corporation (Iran) July 2007–July 2011

Department chair

Department of Management- Molana University (Iran) September 2010–September 2011

Economics Intern

Bureau of Planning and Budget (Iran) May 1999–August 1999

TEACHING EXPERIENCE

Introductory Agricultural and Agribusiness Economics (WVU) January 2019–May 2019

Applied Demand Analysis (Co-teaching) (WVU) August 2016–December 2016

Agricultural Economics (Iran) September 2007–July 2012

Marketing of Agricultural Products (Iran) September 2007–July 2012

Development Economics (Iran) September 2007–July 2012

International Economics (Iran) September 2007–July 2012

Microeconomics (Iran) September 2007–July 2012

Macroeconomics (Iran) September 2007–July 2012

Production Management (Iran) September 2007–July 2012

Research Methods (Iran) September 2007–July 2012

Accounting (Iran) September 2007–July 2012

JOURNAL PUBLICATIONS

1. **Erfanian, E.**, & Collins, A. R. (2020). Air Quality and Asthma Hospitalization: Evidence of PM2.5 Concentrations in Pennsylvania Counties. *Journal of Regional Analysis & Policy*. 50(1):1-15.
2. Court, Ch. & **Erfanian, E.** Water and the Regional Studies, *The Review of Regional Studies*. 49(2):184-189.
3. 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. This article is supported by the National Institute of Food and Agriculture, U.S. Department of Agriculture, under award number 2012-67009-19660.
4. **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.
5. **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. This research was supported by the West Virginia Agriculture and Forestry Experiment Station project WVA00636.
6. Jackson, R., Neto, A. B. F., & **Erfanian, E.** (2018). Woody Biomass Processing: Potential Economic Impacts on Rural Regions. *Energy Policy*. 115, 66-77. This article is supported by the National Institute of Food and Agriculture, U.S. Department of Agriculture, under award number 2012-67009-19660.
7. **Erfanian, E.**, & Neto, A. B. F. (2017). Scientific Output: Labor or Capital Intensive? An Analysis for Selected Countries. *Scientometrics*, 112(1), 461-482.
8. Hall, J., **Erfanian, E.**, Stair, C. (2016). Voting Behavior on Carbon Pollution from Power Plants. *Oil, Gas & Energy Quarterly*. 64(4), 707-710.
9. **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).
10. 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)
11. 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 (UNDER REVIEW)

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.**, Tomas Sayago Gomez, J., & Cushing, 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*.

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. North American Regional Science Council, especial session on opioid crisis. Pittsburg, PA. (Presented by Erfanian) November 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. North American Regional Science Council, especial session on opioid crisis. Pittsburg, PA. (Presented by Cushing and Gomez) November 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 Southern Regional Research Association, especial session on opioid crisis. D.C. (Presented by Erfanian) April 2019.
4. 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.
5. **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.
6. **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.
7. **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.
8. **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.
9. **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.
10. **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.
11. **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.
12. **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.
13. **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.
14. **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.
15. **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.
16. **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)
17. Kaboli, H., & **Erfanian, Z.** (2010). Economic Analysis of Range Management Projects, Case Study: Bar Aftab. 4th 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)

AWARDED GRANTS

1. Elham Erfanian (PI), Alison Davis (Co-PI), ARC Coal Industry Ecosystem (CIE) Analysis Extensions. Appalachian Regional Commission, Subaward from West Virginia University, \$33,308, 7/19-9/20.

2. Alison Davis (PI), Jenny Minier (Co-PI), Mike Clark (Co-PI), Jennifer Hunter (Co-PI), Elham Erfanian (Co-PI), Christina Studts (Co-PI), Ernie Scott (Co-PI), The Economic Importance of Healthcare to Rural Communities, \$500,000, USDA NIFA AFRI, 2/2019-1/2022.

3. Alison Davis (PI), Ernie Scott (Co-PI), Elham Erfanian (Co-PI), National Rural Health Economic Analysis Center, HRSA Office of Rural Health Policy, \$675,000, 9/19-8/22.

INVITED WEBINAR

1. The Impact of Naloxone Access Laws on Opioid Overdose Deaths in the U.S. The Review of Regional Studies. Invited webinar in the North Central Regional Center for Rural Development. Michigan State University. September 2019.

JOURNAL REVIEWER

1. Review for Regional Studies (1)
2. Journal of Regional Analysis and Policies (1)
3. Scientometrics (6)
4. Journal of Private Enterprise (1)
5. Journal of Entrepreneurship and Public Policy (1)
6. International Advances in Economic Research (3)
7. Heliyon (1)
8. Revista Brasileira De Estudos Regionais E Urbanos (2)

VOLUNTEER WORK

1. Southern Regional Science Association (SRSA), 2015
2. Southern Regional Science Association (SRSA), 2016
3. Southern Regional Science Association (SRSA), 2017
4. Southern Regional Science Association (SRSA), 2018
5. Southern Regional Science Association (SRSA), 2019
6. Northern Regional Science Association (NARSC), 2018
7. Northern Regional Science Association (NARSC), 2019

SKILLS (MODELING AND SOFTWARE)

Economics: Spatial Econometrics, Time Series Analysis

Software: 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
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