

# RUOHAO ZHANG

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## EDUCATION

Ph.D. Economics, State University of New York at Binghamton, 2016 – 2021 (expected)

M.S. Statistics, Syracuse University, 2013 – 2016

M.A. Economics, Syracuse University, 2013 – 2015

## REFERENCE

Dr. Neha Khanna (Dissertation Committee Chair)  
Professor, Department of Economics  
Binghamton University  
[nkhanna@binghamton.edu](mailto:nkhanna@binghamton.edu)

Dr. Subal C. Kumbhakar (Dissertation Committee Member)  
Distinguished Professor, Department of Economics  
Binghamton University  
[kkar@binghamton.edu](mailto:kkar@binghamton.edu)

Dr. Michael S. Delgado (Dissertation Committee Member)  
Associate Professor, Department of Agricultural Economics  
Purdue University  
[delgado2@purdue.edu](mailto:delgado2@purdue.edu)

Dr. Alan J. Krupnick  
Senior Fellow  
Resources for the Future  
[krupnick@rff.org](mailto:krupnick@rff.org)

## RESEARCH FIELDS

Environmental Economics and Policy, Applied Microeconomics, Public Economics, Econometrics

## PUBLICATIONS & WORKING PAPERS

- Zhang, R.**, S. C. Kumbhakar, and H. pin Lai (2019). “Estimation of Panel Model with Heteroscedasticity in both Idiosyncratic and Individual Specific Errors”, forthcoming, *Econometric Reviews*.
- Zhang, R.** and N. Khanna (2020). “Public Pressure and Heterogeneous Effects of Voluntary Pollution Abatement” (Job Market Paper), revise & resubmit, *Journal of the Association of Environmental and Resource Economists*.
- Zhang, R.**, H. Li and N. Khanna (2020). “The Environmental Injustice of the COVID-19 Pandemic: Evidence from New York State”, revise & resubmit, *Journal of Environmental Economics and Management*.

4. **Zhang, R.**, H. Li, N. Khanna, A. Krupnick, E. Hill & D. Sullivan (2020). “Spatial Spillovers in Airborne Pollution: Air Quality Impacts of Shale Gas Development in Pennsylvania”, revise & resubmit, *Journal of the Association of Environmental and Resource Economists*.
5. **Zhang, R.** (2020). “Income Effect and the Private Contribution of Public Goods: Household Mobility and the Economic Impact Payment during the COVID-19 Pandemic”, under review.
6. **Zhang, R.**, H. Li and N. Khanna (2020). “Firm Behavior Under Unanticipated Change in Regulation: Power Plant Emissions During the 2018 – 2019 Federal Government Shutdown”, under review.

## WORK IN PROGRESS

1. **Zhang, R** and N. Khanna. “Strategic Local Regulators and NAAQS Non-attainment Designation”, in progress.
2. H. Li, N. Khanna and **Zhang, R.** “The Environmental Justice: an Intergenerational Perspective”, in progress.
3. **Zhang, R.**, N. Khanna, H. Li and J. Hansen-Lewis. “NAAQS and the Composition of Ambient Fine Particulate Matter”, in progress.
4. **Zhang, R.**, H. Li and N. Khanna. “Air Quality and Health Impacts of High Speed Railway in China”, in progress.
5. H. Li, N. Khanna and **R. Zhang**. “Do Polluted Plants in Your Neighborhood Make You Nervous?”, in progress.
6. D. Sullivan, A. Krupnick, H. Li, N. Khanna, E. Hill and **R. Zhang**. “Does Unconventional Oil and Gas Development Affect Infant Health through Air Pollution?”, in progress.
7. **Zhang, R.** “Urban-rural Pollution Leakage in China’s Clean Air Action”, in progress.
8. **Zhang, R.**, M. S. Delgado, N. Khanna, and G. Stokol. “Direct and indirect effects of voluntary pollution abatement programs: An assessment of Ohio’s Tox Minus program”, in progress.
9. Mischen, P. A., G. C. Homsy, C. P. Lipo, R. Holahan, V. Imbruce, A. Pape, W. Zhu, J. Graney, Z. Zhang, L. M. Holmes, M. Reina, **R. Zhang** and S. Feng. “Community Sustainability Index”, in progress.

## SEMINARS AND PRESENTATIONS

“The Environmental Injustice of the COVID-19 Pandemic: Evidence from New York State”

- Midwest Economics Association Annual Virtual Meeting, March 2021 (scheduled)

“Public Pressure and Heterogeneous Effects of Voluntary Pollution Abatement”

- Allied Social Sciences Associations Annual Virtual Meeting, January 2021 (scheduled)
- Southern Economics Association Annual Meeting, November 2020 (scheduled)
- Delhi School of Economics, October 2020
- Binghamton University, September 2020

- Agriculture and Applied Economics Association Annual Virtual Meeting, August 2020
- Northeastern Agricultural and Resource Economics Association Annual Virtual Meeting, June 2020

“Air Quality Impacts of Shale Gas Development in Pennsylvania”:

- Western Economic Association Annual Virtual Meeting, June 2020
- Association of Environmental and Resource Economics Annual Virtual Meeting, June 2020
- Binghamton University, February 2020 (Guest Lecturer)
- Agriculture and Applied Economics Association Meeting, Atlanta, GA, July 2019

## PROFESSIONAL ACTIVITIES

Referee for *Economic Modelling*

## FELLOWSHIPS, HONORS AND AWARDS

Nominee of Graduate Student Excellence Awards in Research, Binghamton University, 2020-21  
Travel Grant for Conference, Binghamton University, 2019

Tuition Scholarship and Graduate Assistantship, Binghamton University, 2016 – 2020

Tuition Scholarship and Graduate Assistantship, Syracuse University, 2014 – 2016

## MEDIA COVERAGE

“Air Quality Impacts of Shale Gas Development in Pennsylvania”:

[Environmental Health News](#), [BingU News](#), [WBNG News Channel 12](#), [Greensboro News & Record](#)

## RESEARCH & TEACHING EXPERIENCES

*Research Assistant at SUNY Binghamton*

Research Assistant, Project “Measuring Community Sustainability”: Summer 2019

Research Assistant for Prof. Neha Khanna: Fall 2018

*Instructor at SUNY Binghamton*

Statistical Method (online): Summer 2020

Principles of Microeconomics (online): Summer 2019

Statistical Method (online): Summer 2018

*Teaching Assistant at SUNY Binghamton*

Natural Resource Economics, Microeconomics (*graduate level*): Fall 2020

Environmental Economics: Spring 2020

Environmental Economics, Natural Resource Economics: Fall 2019

Advanced Environmental Economics: Spring 2019

Principles of Microeconomics: Spring 2018

Monetary Economics, Information Economics, Math Analysis for Economists: Fall 2017

Energy Economics, International Trade: Spring 2017  
Principles of Microeconomics: Fall 2016

*Teaching Assistant at Syracuse University*

Intermediate Microeconomics, Intermediate Macroeconomics: Fall 2015  
Intermediate Macroeconomics: Fall 2014 & Spring 2015

## **PROGRAM SKILLS**

R MATLAB STATA LATEX PYTHON