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Economics Graduate Program
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Citizenship: South Korea (F-1 Visa)

Appointment

Adjunct Instructor, Department of Economics, Elon University, Elon, NC, Fall 2016-present

Major Fields of Concentration

Environmental Economics, Health Economics, Applied Microeconometrics

Education

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
Ph.D.	Economics	North Carolina State University (expected)	2017
M.S.	Economics	North Carolina State University	2016
B.A.	Economics	Yonsei University	2009

Dissertation

Title: "Essays on Long-Range Transport of Air Pollution and Its Health Outcomes"
Dissertation Advisors: Professor Walter Thurman and Roger von Haefen
Expected Completion: Summer 2017

References

Professor Walter N. Thurman	wally_thurman@ncsu.edu	(919) 515-4545
Professor Roger H. von Haefen	roger_von_haefen@ncsu.edu	(919) 515-8946
Professor Kelly Zering	kelly_zering@ncsu.edu	(919) 515-6089
Professor Zachary Brown	zack_brown@ncsu.edu	(919) 515-5969

Conference Presentations

2016 Camp Resources XXIII, Wrightsville Beach, NC

2016 Agricultural & Applied Economics Association Annual Meeting, Boston, MA

Honors and Fellowships

2013 – present Graduate Teaching Assistantship, North Carolina State University
2009 – 2011 *Brain Korea 21 Fellowship*, Yonsei University, South Korea
2006 *Yonsei Honor Student Fellowship* for Undergraduate studies, Yonsei University, South Korea

Research Experience

Fall 2014 Graduate Research Assistant, Department of Agricultural and Resource Economics, North Carolina State University, Raleigh, NC. Worked with Dr. Michael Walden
2010 - 2011 Korean Association for Green Campus Initiative, Seoul, South Korea

Teaching Experience

Fall 2016-present *Adjunct Instructor*, Department of Economics, Elon University, Elon, NC. Teaching ECO111; *Principles of Economics*.
Fall 2016-present *Teaching Assistant*, Department of Economics, North Carolina State University, Raleigh, NC. Led recitation sections for the graduate level ECG505; *Applied Microeconomic Analysis*.
Spring 2016 *Lab Instructor*, Department of Economics, North Carolina State University, Raleigh, NC. Taught EC205; *Fundamentals of Economics*.
2013 - 2015 *Head Grader* for ARE201; *Introduction to Agricultural and Resource Economics*, Department of Agricultural and Resource Economics, North Carolina State University, Raleigh, NC.

Working Paper

“The Effects of Transboundary Air Pollution from China on Ambient Air Quality in South Korea,” job market paper

Abstract

This paper estimates the effects of wind direction on ambient air quality in South Korea (c.2006-2014) in order to provide insights into the impacts of the long-range transport of air pollutants from China. I find that westerly wind increases PM_{10} concentrations in South Korea. More specifically, winds blowing in the southwest direction have the largest year-round impacts on South Korea's ambient air pollution levels, which is consistent with emissions from Shanghai resulting in worse Korean pollution levels. Further, the effects are differentiated seasonally according to the diverse activities that leads to the pollutants. Coal-fired heating in northern Chinese cities leads to larger northwest wind effects in winter. The wind from Shanghai has greater effects in spring due to the influence of dust storms passing from the deserts through mainland China.

Work in Progress

“Air Pollution and Health Outcomes in South Korea”

Abstract

Several studies emphasizing the relationship between air pollution and health effects have been conducted in recent decades. In particular, much scholarly work has been done on the impacts of air pollution on vulnerable groups: premature death, infants, and elderly. Using detailed data on the Korean National Health Insurance Service (NHIS) beneficiaries, this paper examines the effects of air pollution levels on the hospital admissions for respiratory and cardiovascular diseases in South Korea. The data show that respiratory-related diseases are 28% of the total reasons for hospital admissions and the age group between 0-9 comprises 40% of the total number of patients with respiratory system problems. Therefore, the paper focuses on the effects of air pollution on the hospital admissions among youth.

Topic Reader

2013 Agricultural & Applied Economics Association Annual Meeting, Selected Presentations

Skills

Computer Skills STATA, SAS, Matlab, R, Latex
Language English (fluent), Korean (native)