

HYEONGYUL ROH

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RESEARCH INTEREST

Energy, Environmental and Resource Economics, Applied Econometrics, Industrial Organizations
Machine Learning, Dynamic Programming, and Bayesian Statistics

EDUCATION

North Carolina State University Ph.D. candidate in Economics	May 2018 (<i>expected</i>)
Boston University Master of Science in Mathematical Finance	September 2009
Inha University Bachelor of Arts in Economics	August 2007

WORKING PAPERS

"Wind Generation, Inefficiency, and Market Power in Electricity Markets: Counterfactual Prediction with Dynamic Neural Networks for Causal Inference" (**Job Market Paper**)

"Adaptive Resistance Management with Uncertain Fitness Cost", with Zachary S. Brown,
(*under review, Journal of Environmental Economics and Management*)

"Dynamic Optimization of Wolbachia Release", with Zachary S. Brown, Brandon Hollingsworth, Julian Sass, Alun Lloyd, and Michael Vella, (*under review, PLoS ONE*)

"An Estimate of Lives Saved by Enforcement of Seat Belt Usage in North Carolina"
(*Institute for Transportation Research and Education Report, 2016*)

"Risk-based Inspection Resource Allocation Model"
(*Institute for Transportation Research and Education Report, 2016*)

"Dynamic Response to Environmental Regulation in Deregulated Electricity Market"

RESEARCH EXPERIENCE

Institute for Transportation Research and Education <i>Modeling Analyst (part-time)</i>	December 2015 - May 2017 <i>Raleigh, North Carolina</i>
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North Carolina State University <i>Research Assistant, Dr. Zachary S. Brown</i>	August 2015 - May 2016 <i>Raleigh, North Carolina</i>
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TEACHING EXPERIENCE

North Carolina State University <i>Instructor</i> Introduction to Agricultural and Resource Economics (ARE 201)	Fall 2016 & Spring 2017
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<i>Lab Instructor</i> Fundamental of Economics (EC 205)	Fall 2015 & Spring 2016
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PROFESSIONAL EXPERIENCE

KOAS <i>International Business Team, Manager</i>	August 2013 - December 2014 <i>Seoul, South Korea</i>
SK Financial Securities Company <i>Bond Management & Cooperation Research Team, Assistant Analyst</i>	June 2007 - December 2007 <i>Seoul, South Korea</i>
KOAS <i>Investor Relations & Finance Team, Assistant Manager</i>	June 2004 - July 2006 <i>Seoul, South Korea</i>

HONORS & AWARDS

2017-2018	Jenkins Fellowship (\$20,000)
2014-2017	NCSU Graduate Supplemental Fellowship

PRESENTATIONS

2017	19th Annual CU Environmental and Resource Economics Workshop, Vail, CO <i>'Market Inefficiency and Environmental Impacts of Renewable Energy Generation'</i> Camp Resources XXIV Conference, Wrightsville Beach, NC <i>'Transition to Clean Technology and Market Power in the Deregulated Electricity Industry'</i> AERE Summer Conference, Pittsburgh, PA <i>'Transition to Clean Technology and Market Power in the Deregulated Electricity Industry'</i>
2016	Int. Conf. on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, NC <i>'Adaptive Resistance Management with Uncertain Fitness Cost'</i> with Z. Brown CEnREP Colloquium, North Carolina State University <i>'Adaptive Resistance Management with Uncertain Fitness Cost'</i> with Z. Brown

TECHNICAL STRENGTH

Programming	Matlab, C/C++, Mathematica, PostgreSQL, R, SAS, WinBUGS
Other tools	L ^A T _E X, MS Office

ADDITIONAL

Citizenship	Korean Citizen & U.S. Permanent Resident
Affiliations	Center for Environmental and Resource Economic Policy Institute for Transportation Research and Education
Membership	Association of Environmental and Resource Economists, American Economic Association
Languages	English, Korean
Military Services	Corporal, Korean Army, 2001 - 2003 (Mandatory in Korea)

REFERENCES

Harrison Fell
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North Carolina State University
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