

Curriculum Vitae

OKMYUNG BIN

Department of Economics
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EDUCATION

Ph.D., Oregon State University, June 2000
M.A., Korea University, February 1994
B.A., Hankuk University of Foreign Studies, February 1992

ACADEMIC POSITIONS

Professor, Department of Economics, East Carolina University
August 2015 – present
Research Associate, Center for Natural Hazards Research, East Carolina University
August 2005 – present
Associate Professor, Department of Economics, East Carolina University
August 2007 – August 2015
Visiting Professor, China Agricultural University, Beijing, China
July 2007 – August 2007
Assistant Professor, Department of Economics, East Carolina University
August 2001 – August 2007

PUBLICATIONS

de Koning, Koen, Tatiana Filatova, Ariana Need, and Okmyung Bin. Avoiding or mitigating flooding: Bottom-up drivers of urban resilience to climate change in the USA. *Global Environmental Change*, November 2019, vol. 59, [101981]. <https://doi.org/10.1016/j.gloenvcha.2019.101981>,

Hwang, Jee, and Okmyung Bin. Effects of Changes in Climatic Conditions on New Mexico Pecan Production, Price, and Cash Receipts. *Climate Change Economics*, May 2019, vol. 10(2), 1950006. <https://www.worldscientific.com/doi/pdf/10.1142/S2010007819500064>.

de Koning, Koen, Tatiana Filatova, and Okmyung Bin. Capitalization of Flood Insurance and Risk Perceptions in Housing Prices: An Empirical Agent-Based Model Approach. *Southern Economic Journal*, April 2019, vol. 85(4), pp 1159-1179.

- Hwang, Jee, Chun Kuang, and Okmyung Bin. Are All Homeowners Willing to Pay for Better Schools? — Evidence from a Finite Mixture Model Approach. *Journal of Real Estate Finance and Economics*, May 2019, vol. 58, pp 638–655.
- de Koning, Koen, Tatiana Filatova, and Okmyung Bin. Improved Methods for Predicting Property Prices in Hazard Prone Dynamic Markets. *Environmental and Resource Economics*, February 2018, vol. 69(2), pp 247-263.
- Bin, Okmyung, John Bishop, and Carolyn Kousky. Does the National Flood Insurance Program have Redistributive Effects? *The B.E. Journal of Economic Analysis and Policy*, October 2017, vol. 17(4), 20160321, ISSN (Online) 1935-1682, DOI: <https://doi.org/10.1515/bejeap-2016-0321>.
- Bin, Okmyung, Jeffrey Czajkowski, Jingyuan Li, and Gabriele Villarini. Housing Market Fluctuations and the Implicit Price of Water Quality: Empirical Evidence from a South Florida Housing Market. *Environmental and Resource Economics*, October 2017, vol. 68(2), pp 319-342.
- de Koning, Koen, Tatiana Filatova, and Okmyung Bin. Bridging the Gap between Revealed and Stated Preferences in Flood-prone Housing Markets. *Ecological Economics*, June 2017, vol. 136(c), pp 1-13.
- Crawford, Thomas, Okmyung Bin, Jamie Kruse, and Craig Landry. On the Importance of Time for GIS View Measures and Their Use in Hedonic Property Models: Does Being Temporally Explicit Matter? *Transactions in GIS*, April 2014, vol. 18(2), pp 234–252.
- Bin, Okmyung. Sea Level Rise in Environmental and Natural Resource Economics: An Encyclopedia. J.C. Whitehead and T. C. Haab (Eds), pp 291-293, ABC-CLIO Publishers, Santa Barbara, CA, USA, March 2014.
- Shim, Jooyong, Okmyung Bin, and Changha Hwang. Semiparametric Spatial Effects Kernel Minimum Squared Error Model for Predicting Housing Sales Prices. *Neurocomputing*, January 2014, vol. 124, pp 81-88.
- Bin, Okmyung, and Craig Landry. Changes in Implicit Flood Risk Premiums: Empirical Evidence from the Housing Market, *Journal of Environmental Economics and Management*, May 2013, vol. 65(3), pp 361-376.
- Bin, Okmyung, and Jeffrey Czajkowski. The Impact of Technical and Non-Technical Measures of Water Quality on Coastal Waterfront Property Values in South Florida, *Marine Resource Economics*, March 2013, vol. 28(1), pp 43-63.
- Filatova, Tatiana, and Okmyung Bin. Changing Climate, Changing Behavior: Adaptive Economic Behavior and Housing Markets Responses to Flood Risks in Advances in Social Simulation, B. Kaminski and G. Koloch (Eds), pp 249-258, Springer-Verlag Berlin Heidelberg. 2013.
- Bin, Okmyung, John Bishop, and Carolyn Kousky. Redistributive Effects of the National Flood Insurance Program. *Public Finance Review*, May 2012, vol. 40(3), pp 360-380.
- Bin, Okmyung, Ben Poulter, Christopher Dumas, and John Whitehead. Measuring the Impact of Sea-Level Rise on Coastal Real Estate: A Hedonic Property Model Approach. *Journal of Regional Science*, September 2011, vol. 51(4), pp 751-767.

- Landry, Craig, Paul Hindsley, Okmyung Bin, Jamie Kruse, John Whitehead, and Ken Wilson. Weathering the Storm: Measuring Household Willingness-to-Pay for Risk-Reduction in Post-Katrina New Orleans. *Southern Economic Journal*, April 2011, vol. 77(4), pp 991-1013.
- Bin, Okmyung, Craig Landry, and Gregory Meyer. Riparian Buffers and Hedonic Prices: A Quasi-Experimental Analysis of Residential Property Values in the Neuse River Basin. *American Journal of Agricultural Economics*, November 2009, vol. 91(4), pp 1067-1079.
- Whitehead, John, Ben Poulter, Christopher Dumas, and Okmyung Bin. Measuring the Economic Effects of Sea Level Rise on Shore Fishing. *Mitigation and Adaptation Strategies for Global Change*, October 2009, vol. 14(8), 777-792.
- Bin, Okmyung, and Bob Edwards. Social Capital and Business Giving to Charity Following a Natural Disaster: An Empirical Assessment. *Journal of Socio-Economics*, August 2009, vol. 38(4), pp 601-607.
- Bin, Okmyung, and Carlos Martins-Filho. Vehicle Price and Hydrocarbon Emissions: Evidence from the Used Vehicle Markets. *Applied Economics Letters*, October 2008, vol. 15(12), pp 939-943.
- Bin, Okmyung, Thomas Crawford, Jamie Kruse, and Craig Landry. Viewscapes and Flood Hazard: Coastal Housing Market Response to Amenities and Risk. *Land Economics*, August 2008, vol. 84(3), pp 434-448.
- Bin, Okmyung, Jamie Kruse, and Craig Landry. Flood Hazards, Insurance Rates, and Amenities: Evidence from the Coastal Housing Market. *The Journal of Risk and Insurance*, March 2008, vol. 75(1), pp 63-82.
- Landry, Craig, Okmyung Bin, Paul Hindsley, John Whitehead, and Kenneth Wilson. Going Home: Evacuation-Migration Decisions of Hurricane Katrina Survivors. *Southern Economic Journal*, October 2007, vol. 74(2), pp 326-343.
- Bin, Okmyung, and Jamie Kruse. Real Estate Market Response to Coastal Flood Hazards. *Natural Hazards Review*, November 2006, vol. 7(4), pp 137-144.
- Patrick, Wesley, Okmyung Bin, Kurt Schwabe, and Peter Schuhmann. Hatchery Programs, Stock Enhancement, and Cost Effectiveness: A Case Study of the Albemarle Sound/Roanoke River Stocking Program 1981-1996. *Marine Policy*, July 2006, vol. 30(4), pp 299-307.
- Bin, Okmyung, and Stephen Polasky. Evidence on the Amenity Value of Wetlands in a Rural Setting. *Journal of Agricultural and Applied Economics*, December 2005, vol. 37(3), pp 589-602.
- Bin, Okmyung. A Semiparametric Hedonic Model for Valuing Wetlands. *Applied Economics Letters*, August 2005, vol. 12(10), pp 597-601.
- Bin, Okmyung, Craig Landry, Christopher Ellis, and Hans Vogelsson. Some Consumer Surplus Estimates for North Carolina Beaches. *Marine Resource Economics*, June 2005, vol. 20(2), pp 145-161.
- Martins-Filho, Carlos, and Okmyung Bin. Estimation of Hedonic Price Functions via Additive Nonparametric Regression. *Empirical Economics*, April 2005, vol. 30(1), pp 93-114.
- Bin, Okmyung, and Stephen Polasky. Effects of Flood Hazards on Property Values: Evidence Before and After Hurricane Floyd. *Land Economics*, November 2004, vol. 80(4), pp 490-500.

- Bin, Okmyung. A Prediction Comparison of Housing Sales Prices by Parametric versus Semi-Parametric Regressions. *Journal of Housing Economics*, March 2004, vol. 13(1), pp 68-84.
- Bin, Okmyung. A Logit Analysis of Vehicle Emissions Using Inspection and Maintenance Testing Data. *Transportation Research D: Transport and Environment*, May 2003, vol. 8(3), pp 215-227.
- Polasky, Stephen, and Okmyung Bin. Entry Deterrence and Signaling in a Non-Renewable Resource Model. *Journal of Environmental Economics and Management*, November 2001, vol. 42(3), pp 235-256.

PAPERS AND PROCEEDINGS

- Cornacchia, Federico, Koen de Koning, and Okmyung Bin. Valuing Urban Biodiversity using Citizen Science Data: A Hedonic Property Model Approach. 2023.
- Lee, Jonathan, Okmyung Bin, John Bishop, and Lester A. Zeager. Distributional Impacts of U.S. Floods on County Economic Activity. 2022.
- Bin, Okmyung, Koen de Koning, Tatiana Filatova, and Ariana Need. Individual Adaptation to Floods in the U.S. Housing Markets. 2021.
- Hwang, Jee, Okmyung Bin, Alok Bohara. Heterogeneous Preferences in Wildlife Watching Recreation — Evidence from a Finite Mixture Model Approach. 2021.
- Filatova, Tatiana, Koen de Koning, and Okmyung Bin. Exploring Structural Shifts in Cities under Climate-Driven Risks with Computational Economic Agent-Based Model. Social Simulation Conference, Germany. 2019.
- Bin, Okmyung, John Bishop, and Carolyn Kousky. Redistributive Impacts of the National Flood Insurance Program. *Resources for the Future, Discussion Paper, DP-11-14*. 2011.
- Bin, Okmyung, Ben Poulter, Christopher Dumas, and John Whitehead. Measuring the Impacts of Sea Level Rise on Coastal Real Estate in North Carolina, *Proceedings of the 21st International Conference of the Coastal Society*. 2008.
- Bin, Okmyung, Christopher Dumas, Ben Poulter, and John Whitehead. GIS Measuring the Impacts of Climate Change on North Carolina Coastal Resources, *Proceedings of Ecosystem Sustainability & Health of Threatened Marine Environments: Terengganu, Malaysia*. 2007.
- Bin, Okmyung, Thomas Crawford, Jamie Kruse, and Craig Landry. Valuing Spatially Integrated Amenities and Risks in Coastal Housing Markets. *Proceedings of the Third World Congress of Environmental and Resource Economists: Kyoto, Japan*. 2006.

GRANTS AND CONTRACTS

- University of Twente, \$18,000, Eliciting Behavioral Aspects of Household Decisions under Flood Risk, 2017.
- East Carolina University, Thomas Harriot College of Arts and Sciences, Faculty Travel Award, 2016.
- Alfred P. Sloan Foundation, \$150,500, Assessing Incentives for Uptake and Distributional Consequences of the National Flood Insurance Program, with

Richard Revesz, Jason Schwartz, Michael Livermore, Howard Kunreuther, Carolyn Kousky, J. Scott Holladay, and John Bishop, 2014.

East Carolina University, Center for Natural Hazards Research, Grant-writing Course Buy-out for Spring 2011, Modeling Storm Surge and Flood Losses in NC Coastal Communities, with Tom Crawford, 2010.

National Wildlife Federation, \$4,000, Distributional Consequences of the National Flood Insurance Program, with Scott Holladay, Carolyn Kousky and John Bishop, 2010.

East Carolina University, Coastal Maritime Council, \$8,000, Understanding Heterogeneous Preferences on Essential Fish Habitats: A Choice Modeling Approach, with Joseph Luczkovich, 2008.

University of North Carolina Research Competitiveness Fund, \$288,694, North Carolina Coastal Hazards: Economic Implications of Severe Storms and Sea Level Rise, with Stephen Culver, Stanley Riggs, Tom Allen, Dorothea Ames, Reide Corbett, Tom Crawford, Chris Dumas, Mohammad Jahan-Parvar, Craig Landry, David Mallinson, Michael O'Driscoll, Hans Vogelsong, J.P. Walsh, Nancy White, John Whitehead, and Robert Young, 2007-2008.

East Carolina University, Asian Studies Program, Asian Studies Grants funded by the US Department of Education, \$4,000, 2007.

National Science Foundation, Small Grants for Exploratory Research, \$170,459, The 'New' New Orleans: Evaluating Preferences for Rebuilding Plans after Hurricane Katrina, with Jamie Kruse, John Whitehead, Kenneth Wilson, Craig Landry, and Harold Stone, 2006-2007.

National Commission on Energy Policy, \$50,000, Measuring the Impacts of Climate Change on North Carolina Coastal Resources, with Christopher Dumas, Ben Poulter, and John Whitehead, 2006.

East Carolina University, Faculty Senate 2006-2007 Research/Creative Activity Grant, \$14,663, The Impact of Riparian Buffer Rules on Real Estate Markets: Evidence from the Neuse River Basin, 2006.

East Carolina University, Division of Research and Graduate Studies Research Development Grant Program, \$30,000, Spatial, Environmental and Behavioral Determinants of Valuation of Coastal Erosion Risk, with Jamie Kruse, Craig Landry, and Tom Crawford, 2005.

East Carolina University, Regional Development Services, Study on Historical Impact of Pitt County Memorial Hospital on County Revenue Stream, granted for two course release, 2005.

East Carolina University, Department of Economics, Valuing Wetlands Using a Hedonic Property Price Approach, granted for one course release, 2003.

PRESENTATIONS

The 9th International Conference on Flood Management, Tsukuba, Japan (2023)

The 34th US-Korea Conference on Science, Technology, and Entrepreneurship (2021)

University of Montpellier, Montpellier, France (2019)

Yonsei University, Seoul, Korea (2014)

University of Twente, Twente Centre for Studies in Technology and Sustainable Development, the Netherlands (2013)

Old Dominion University, Transatlantic Solutions to Sea Level Rise Adaptation: Moving Beyond the Threat (2013)
University of Pennsylvania, The Wharton School, Center for Risk Management and Decision Processes (2013)
Society for Benefit Cost Analysis Annual Meetings (2008, 2013, 2015–2018)
Appalachian State University Environmental Economics Workshop (2012)
Southern Economic Association Annual Meetings (2002–2016)
International Atlantic Economic Society Annual Meetings (2018)
East Carolina University Center for Faculty Excellence (2010)
Eastern Economic Association Annual Meetings (2005, 2010, 2020)
East Carolina University Hurricane Floyd Symposium (2009)
US EPA Ecological Research Lecture Series (2008)
The 21st International Conference of the Coastal Society (2008)
UNC Coastal Studies Institute Coastal Hazards Workshop (2008)
Economy and Environment Program for Southeast Asia (EEPSEA)'s 29th Biannual Workshop, Bangkok, Thailand (2008)
The Nature Conservancy Sea Level Rise Adaptation Briefing for Policymakers in North Carolina (2008)
Universiti Malaysia Terengganu, Terengganu, Malaysia (2007)
North Carolina Beach, Inlet & Waterway Association Annual Conference (2007)
Louisiana State University Center for Natural Resource Economics & Policy (2004, 2007)
National Commission on Energy Policy (2006)
The Third World Congress of Environmental and Resource Economists, Kyoto, Japan (2006)
Triangle Resource and Environmental Economics Seminar Series (2002)
Camp Resources (2001, 2002)

TEACHING

East Carolina University, PhD Program in Coastal Resources Management
ECON 6300 Economics of Coastal Populations
East Carolina University, Department of Economics
ECON 6390 Research
ECON 6301 Econometrics I
ECON 5000 Cost Benefit Analysis
ECON 5000 Economics of Coastal Populations
ECON 4850 Natural Resource Economics
ECON 3855 Environmental Economics
ECON 3855 Environmental Economics – Distance Education Course
ECON 3343 Econometrics
ECON 2113 Principles of Microeconomics
Oregon State University, Department of Economics
ECON 526 Applied Econometric Methods
ECON 311 Intermediate Microeconomic Theory
ECON 201 Introduction to Microeconomics

Linn Benton Community College, Benton Center – Corvallis, Oregon
ECON 201 Introduction to Microeconomics
ECON 202 Introduction to Macroeconomics

SERVICE

Editorial Board

Accounting, Business, and Economic Review, 2011 – present

Refereeing

American Journal of Agricultural Economics

Asia-Pacific Journal of Risk and Insurance

Australian Journal of Agricultural and Resource Economics

Climatic Change

Coastal Management Journal

Contemporary Economic Policy

Ecological Economics

Economics of Disasters and Climate Change

Empirical Economics

Environment and Planning A

Environmental and Resources Economics

Environmental Economics and Policy Studies

Forest Conservation in the Anthropocene

Growth and Change

Housing Studies

International Journal of Disaster Risk Reduction

*International Journal of Intelligent Systems in Accounting, Finance and
Management*

Journal of Agricultural and Applied Economics

Journal of the American Water Resources Association

Journal of the Association of Environmental and Resource Economists

Journal of Benefit-Cost Analysis

Journal of Environmental Economics and Management

Journal of Environmental Management

Journal of Flood Risk Management

Journal of Housing Economics

Journal of Ocean and Coastal Economics

Journal of Real Estate Finance and Economics

Journal of Risk and Insurance

Journal of Sustainable Tourism

Land Economics

Marine Resource Economics

Public Finance Review

Public Works Management and Policy

Regional Science and Urban Economics

Risk Analysis

Southern Economic Journal

Spatial Economic Analysis
Urban Studies
Water Resources and Economics
Water Resources Research
Weather, Climate and Society
Delaware Sea Grant
Florida Sea Grant
Georgia Sea Grant
Maryland Sea Grant
Mississippi-Alabama Sea Grant Consortium
New York Sea Grant
National Oceanic and Atmospheric Administration – Coastal and Ocean Climate Applications
National Science Foundation
Social Sciences and Humanities Research Council of Canada
South Asian Network for Development and Environmental Economics (SANDEE) Grant
Springer
The Research Grants Council, Hong Kong, China
Program Committee for the Inaugural Summer Conference of the Association of Environmental and Resource Economists
Program Committee for the 2015 American Agricultural Economic Association Annual Meeting

East Carolina University, Institute for Coastal Sciences and Policy
Economist Search Committee, Member, 2014 – 2015
Coastal Social Scientist Search Committee, Member, 2009
East Carolina University, PhD Program in Coastal Resources Management
CRM Advisory Committee, Member, 2008 – 2009
Ad Hoc Committee on CRM Student Survey, Coordinator, 2009
East Carolina University, Regional Development Services
Study on Historical Impact of Pitt County Memorial Hospital on County Revenue Stream, Investigator, 2005
East Carolina University, Thomas Harriot College of Arts and Sciences
Asian Studies Advisory Council, Member, 2007 – present
Coastal and Marine Studies Advisory Committee, 2010 – 2018
Coastal Maritime Council, Member, 2013 – 2017
University Environment Committee, Member, 2012 – 2014
College Curriculum Committee, Secretary, 2004 – 2005
College Curriculum Committee, Member, 2003 – 2005
East Carolina University, Department of Economics
Personnel Committee, Member, 2008 – 2009, 2017 – 2019
Academic Assessment Committee, Chair, 2013 – 2017
Department Chair Search Committee, Member, 2014 – 2015
Tenure-Track Search Committee, Member, 2003 – 2004, 2008 – 2009, 2010 – 2011, 2014 – 2015
Scholarship Committee, Chair, 2013 – 2014

Faculty Senate, 2012 – 2014
Faculty Senate, Alternate, 2010 – 2012
Graduate Program Committee, Member, 2009 – 2011
Strategic Planning and Outcomes Assessment Committee, Member, 2009 – 2011
Personnel Committee, Chair, 2007 – 2008
Undergraduate Program Committee, Chair, 2006 – 2007
Scholarship Committee, Member, 2006 – 2007
Ad hoc Committee on the Use of Journal Rankings, Member, 2007
Department Strategic Planning Committee, Member, 2007
Undergraduate Program Committee, Member, 2005 – 2006
University Curriculum Committee, Liaison, 2003 – 2005
Graduate Curriculum Committee, Liaison, 2003 – 2005
Graduate Program Committee, Member, 2001 – 2003

Media

Time Magazine: Business & Money, November 28, 2012
“Will Hurricane Sandy Drive Down Coastal Home Prices?”
The Fiscal Times, November 8, 2012
“Could Home Prices Come Back Even Stronger After Sandy?”
Resources for the Future, March 25, 2011
“Redistributional Impacts of the National Flood Insurance Program”
City of Dallas, September 28, 2010
“Floodplain Property Value Research”
Wiley-Blackwell Press Release, Journal of Risk and Insurance, March 27, 2008
“Proximity To A Flood Zone Lowers Property Values”
UNC-TV, North Carolina Now, September 28, 2007
CBS WNCT Channel 9 News, June 21, 2007
“Headline: New Study Paints Bleak Picture For Coast”
East Carolina University News Services, June 20, 2007
“New Study Finds Carolina Coastal Economy Vulnerable to Sea Level Rise”
North Carolina Press Conference held at North Carolina Museum of Natural Sciences, included Raleigh News & Observer, the Wilmington Star-News, WRAL-TV, WCTI-TV from New Bern, the North Carolina News Network (radio) and NC public radio, June 20, 2007
“New Study Finds Carolina Coastal Economy Vulnerable to Sea Level Rise”
ENC Today, July 1, 2003
“Impact of Offshore Drilling on Tourism in Eastern North Carolina”

HONORS AND AWARDS

American Risk and Insurance Association (ARIA) Mehr Award for Best Article, ARIA Annual Meeting in Chicago, IL, 2018.
East Carolina University, ECU Delegation to visit Universiti of Malaysia Terengganu, 2007.

East Carolina University, Division of Research and Graduate Studies, Grants for External Funding Agency Visitation Initiative, 2006.

Oregon State University, Department of Economics, Outstanding Graduate Student Award, 1997.

Oregon State University, Department of Economics, Emery Castle Award, 1995.

Maeil Economy Paper, Grand Prix of Students' Best Economics Paper Award, 1993.