

# JAMIE BROWN KRUSE

ORCID0000-0003-3864-3231

## EDUCATION

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- 1988 *Ph.D. Economics*. University of Arizona, Tucson, AZ  
*Major Professor: Vernon Smith, 2002 Nobel Laureate*
- 1983 *M.S. Agricultural Economics*. Colorado State University, Fort Collins, CO
- 1979 *B.S. with distinction Ag Honors*. University of Nebraska, Lincoln, NE

## PROFESSIONAL EXPERIENCE

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- HCAS Distinguished Professor of Economics*  
2012 -present East Carolina University Greenville, NC
- Director (founding) Center for Natural Hazards Research*  
2004 -present East Carolina University Greenville, NC
- Senior Scientist, Institute for Coastal Science and Policy*  
2014 -2018 East Carolina University Greenville, NC
- Professor of Economics*  
2004 -2012 East Carolina University Greenville, NC
- Board of Directors*  
1994 -present Genoa National Bank/Genoa Community Bank Genoa, NE
- Chief Economist and Senior Advisor for the Social Sciences*  
2010 National Oceanic and Atmospheric Administration Silver Spring, MD
- Director(founding) RENCi Center for Coastal Systems Informatics and Modeling*  
2006-2008 East Carolina University Greenville, NC
- Fellow*  
2005 -2006 FDIC Center for Financial Research Washington, DC
- Professor of Economics*  
2001 -2004 Texas Tech University Lubbock, TX
- Visiting Professor*  
2001 -2002 Eidgenossische Technische Hochschule (ETH) Zurich, Switzerland  
Swiss Federal Institute of Technology
- Associate Professor of Economics*  
1996 -2001 Texas Tech University Lubbock, TX
- Assistant Professor of Economics*  
1988 - 1996 University of Colorado Boulder, CO

## PROFESSIONAL SERVICE

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- External Assessment Panel, Center for Risk-Based Community Resilience Planning, *NIST-funded Center of Excellence*. Colorado State University, Fort Collins, CO 2016-20.
- Review Panel, National Science Foundation, Humans, Disasters and Built Environment Career, CMMI Directorate, 2018.

Review Panel, National Science Foundation, Future of Work at the Human Technology Frontier, CISE Directorate, 2018.

Expert Reviewer, "Understanding the Long-term Evolution of the Coupled Natural-Human Coastal System: The Future of the U.S. Gulf Coast," National Academies Board on Earth Sciences and Resources, 2018.

Review Panel, National Science Foundation, Critical Resilient Interdependent Infrastructure Systems and Processes (CRISP type 2), 2018.

Advisory Committee, Alliance for Hazards and Disaster Science, 2018.

Review Panel, National Science Foundation, Big Data Spokes Hazard Panel, Information and Intelligent Systems Division, CISE Directorate, 2018.

Steering Committee, Social Science Extreme Events Reconnaissance (SSEER) Platform Natural Hazards Center, University of Colorado, Boulder, 2018.

Review Panel, National Academies of Sciences, Engineering, and Medicine, Gulf Research Program, 2017.

Review Panel, Department of Homeland Security, Center for Homeland Security Quantitative Analysis, 2017.

Member, Risk Management Coordinating Council (RMCC) North Carolina Department of Public Safety, 2016-17.

Workshop Invited Attendee, White House Forum on Smart Finance for Disaster Resilience, sponsored by the White House Council on Environmental Quality and National Security Council, Washington, DC 2016.

Board of Trustees, Southern Economics Association, 2016-20.

Blue Ribbon Review Panel, National Science Foundation, Engineering Research Centers Program, 2016-17.

Workshop Invited attendee, Open Data and the Value of Scientific Information," sponsored by NOAA and USGS, Silver Spring, MD 2016.

Workshop Organizer, "Data-to-Decisions: Valuing the Societal Benefit of Geospatial Information," sponsored by NASA, USGS, IEEE-USA, International Social Science Council, Group on Earth Observations, and OECD, Paris, France 2016.

Review Panel, National Science Foundation, Preliminary Proposals, Engineering Research Centers Program, 2015.

Review Panel, National Science Foundation, Critical Resilient Interdependent Infrastructure Systems and Processes (CRISP type 1), 2015.

Workshop Invited Attendee, DHS, Coastal Resilience Center PI's meeting, Washington, D.C. July 2015.

Workshop Invited Attendee, National Oceanic and Atmospheric Administration, National Weather Service, "Living with Extreme Weather," Oklahoma City, OK, May 2015.

Workshop Invited Attendee, National Institute for Standards and Technology/American Society of Civil Engineers, "Economics of Community Disaster Resilience," Reston, VA, April 2015.

Review Panel, National Science Foundation, Civil and Mechanical Engineering Directorate, Infrastructure Management and Extreme Events, 2015.

Reviewer, Department of Homeland Security Critical Infrastructure and Resilience Center of Excellence Partner Proposals, 2014.

National Science Foundation, #1424075 "Next Generation of Hazards and Disasters Researchers," Mentor, 2014-2016.

Review Panel, National Science Foundation, Computer and Information Science & Engineering Directorate, Big Data and Disasters, 2014.

Workshop invited speaker, "Assessing the Socioeconomic Impact and Value of Open Geospatial Information", sponsored by NASA, USGS, IEEE-USA, University of Colorado, and George Washington University, Washington DC, 2014.

Peer Review Panel, New England Fishery Management Council, Recommendations for Excessive-Share Limits in the Northeast Multispecies Fishery, 2014.

Expert Reviewer, Kingdom of Saudi Arabia, Ministry of Higher Education, Center of Research Excellence in Natural Disasters, 2014.

Workshop invited attendee, “Travelers-IBHS – Wharton Symposium: transforming mitigation into action,” Institute of Building and Home Safety, Richburg, SC, December 2013.

Workshop invited attendee, “Methods for Research Synthesis: a cross-disciplinary approach,” Harvard Center for Risk Analysis, Cambridge, MA, October 2013.

External Advisory Team, Mentoring for Promotion, Department of Economics, University of North Texas, April 2013.

Workshop invited attendee, Air Force Office of Scientific Research (AFOSR) Workshop on Catastrophic Risks, Stanford, CA, June 2012.

Workshop invited attendee, Weather Ready Nation Oklahoma City, OK, December 2011 and Birmingham, AL, April 2012.

Review Panel, National Science Foundation, Integrated Graduate Education and Research Training (IGERT) 2011.

Technical Review Panel, Mississippi-Alabama Sea Grant Consortium, 2011-2016.

Program Review Panel, NOAA Northeast Fisheries Science Center, Social Sciences Branch, Woods Hole, MA, 2011.

Workshop speaker and invited attendee, “The Role of Economics: Integrating Economics into the USGS Research Portfolio, USGS National Center, Reston, VA 2011.

Workshop invited attendee, “Creating a More Disaster Resilient America” (CaMRA), National Science Foundation, Arlington, VA 2011.

Review Panel, National Science Foundation, Graduate Research Fellowship Program (GRFP) (Economics) 2011.

Member, White House Office of Science and Technology Policy, Subcommittee on Social, Behavioral and Economic Science, 2010.

Member, White House Office of Science and Technology Policy, Subcommittee on Ocean Science and Technology Policy, 2010.

Co-chair, White House Office of Science and Technology Policy, Subcommittee on Ocean Science and Technology Policy, Interagency Working Group on Ocean Social Science, 2010.

Member, National Oceanic and Atmospheric Administration, Research Council, 2010.

Co-Chair, National Oceanic and Atmospheric Administration, Research Council Social Science Committee, 2010.

Co-Chair, National Oceanic and Atmospheric Administration, Research Council Ad Hoc Committee on Scientific Integrity, 2010.

Lead, Social Science Theme, NOAA Deepwater Horizon Science Team, 2010.

Member, White House Deepwater Horizon Oil Spill National Incident Command, Economic Solution Team, 2010.

Member, organizing committee, Deepwater Horizon Oil Spill Principal Investigator’s Conference, sponsored by OSTP Subcommittee on Ocean Science and Technology Policy, St. Petersburg, FL, October, 2010.

Review Panel, National Science Foundation, Integrated Graduate Education and Research Training Program (IGERT) 2010.

Organizer, Hurricane Floyd Symposium, Public Forum and Research Conference Commemorating the 10<sup>th</sup> anniversary of Hurricane Floyd, September 17-18, 2009, Greenville, NC.

Review Panel, National Science Foundation, Engineering Research Centers Program, 2009.

Legislative Offshore Energy Exploration Research Study Committee, appointed by Joe Hackney, Speaker, North Carolina House of Representatives, 2009.

National Science Foundation, “Enabling the Next Generation of Hazards and Disasters Researchers,” Mentor, 2008-2010.

Review Panel, National Science Foundation, Decision, Risk and Management Sciences Program, Directorate for Social, Behavioral and Economic Science, 2007-2008.  
Workshop invited attendee, National Science Foundation, "Toward a Natural Hazard Vulnerability and Resiliency Observatory." June 2008, College Station, TX.  
Site Visit Team, Engineering Center of Excellence, National Science Foundation, Engineering Directorate, 2008.  
Review Panel, National Science Foundation, Integrative Graduate Education and Research Training Program (IGERT), 2005.  
Steering Committee, Hazards and Disasters Researchers Meeting, Boulder, CO, 2006-2008.  
Review Panel, National Science Foundation, Human and Social Dynamics, 2005.  
Review Panel, National Science Foundation, Hazard Mitigation and Response, Directorate for Engineering, 2001.

#### AWARDS

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2018 American Risk and Insurance Association Robert I. Mehr Award for the paper published in *Journal of Risk and Insurance* ten years ago that has best stood the test of time for "Flood Hazards, Insurance Rates and Amenities: Evidence from the Coastal Housing Market," by Okmyung Bin, Jamie Brown Kruse and Craig E. Landry.  
2017 Research Exemplar, Research Exemplar Project, Washington University at St. Louis.  
2012 Distinguished Professor of the Thomas Harriot College of Arts and Sciences. East Carolina University.  
2012 Lifetime Achievement Award for Excellence in Research and Creative Activity. Awarded by division of Research and Graduate Studies, East Carolina University.  
2011 Women of Distinction Awarded by the Chancellor's Committee on the Status of Women, East Carolina University.  
1997 Big 12 Faculty Fellowship. Awarded by Texas Tech University.

#### EDITORIAL ACTIVITY

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Guest Editor, *Economics and Flood Risk Symposium, Southern Economic Journal*, expected Fall 2018.  
*GEOValue: the socioeconomic value of geospatial information*, editors J. Kruse, F. Pearlman, J. Crompvoets, ISBN 13:978-1-4987-7451-2 CRC Press, Taylor and Francis, Baton Rouge, FL, 2018.  
Board of Editors, *Eastern Economic Journal*, 2013-2015.  
Board of Editors, *Journal of Business Valuation and Economic Loss Analysis*, 2005-2015.  
Guest Associate Editor, *Natural Hazards Review*, 2008-9.  
Special Issue Editor, Hurricane Katrina Special Issue, *Journal of Business Valuation and Economic Loss Analysis*, 2009.  
Guest Editor, *Hurricane Katrina Symposium, Southern Economic Journal*, October 2007.  
*Economics and Wind*, B. T. Ewing and J.B. Kruse, eds., Nova Science Publishing, Inc., Hauppauge, New York, ISBN 1-59454-280-5, 2005.  
Board of Editors, *International Journal of Information and Operations Management Education*, 2007-2013.  
Board of Editors, *Global Review of Business and Economic Research*, 2003-2008.

#### PUBLISHED ARTICLES (TOTAL 64)

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"Homeowner decisions to retrofit to reduce hurricane-induced wind and flood damage," with Z. Jasour, R. Davidson, J. Trainor, and L. Nozick, *Journal of Infrastructure Systems* 24(4) December 2018, DOI: [10.1061/\(ASCE\)IS.1943-555X.0000452](https://doi.org/10.1061/(ASCE)IS.1943-555X.0000452).  
"Homeowner purchase of insurance for hurricane wind and flood protection," with D. Wang, R. Davidson, J. Trainor, and L. Nozick, forthcoming *Natural Hazards Review*.

- “A Celebration of Vernon Smith’s 90<sup>th</sup> Birthday and Lifetime Contributions to Economics and Beyond: Experiments that Inform Policy,” *Southern Economic Journal*, doi: 10:1002/soej.12197, 2017.
- “Market Insurance and Self-Insurance through Retrofit: Analysis of Hurricane Risk in North Carolina,” with X. Shan, Y. Kesete, Y. Gao, R. Davidson, R. and L. Nozick, *Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering* 10 pages 3(1) March 2017 <http://ascelibrary.org/doi/10.1061/AJRUA6.0000887>
- “Modeling Competition in a Market for Natural Catastrophe Insurance,” with Y. Gao, L. Nozick, and R. Davidson. *Journal of Insurance Issues* 39(1):38-68, 2016.
- “Preference Representations for Catastrophic Risk analysis,” with R. Ericson chapter in The Economics of the Global Environment, edited by Graciela Chichilnisky and Armon Rezal, Springer International Publishing AG, 2015.
- “Modeling the integrated roles of insurance and retrofit in managing natural disaster risk: a multi-stakeholder perspective,” with J. Peng, X. Shan, Y. Gao, Y. Kesete, R. Davidson and L. Nozick. *Natural Hazards* 74:1043-1068, 2014.
- “Modeling Insurer-Homeowner Interactions in Managing Natural Disaster Risk,” with Y. Kesete, J. Peng, X. Shan, Y. Gao, R. Davidson and L. Nozick. *Risk Analysis* 34(6), 1040-1055, 2014.
- “On the Importance of Time for GIS View Measures and Their use in Hedonic Property Models.” with O. Bin, T. Crawford, C. Landry. *Transactions in GIS* 18(2) 234-252, 2014.
- “Weathering the Storm: Measuring Household Willingness-to-Pay for Risk-Reduction in Post-Katrina New Orleans” with O. Bin P. Hindsley, C. Landry, J. Whitehead, and K. Wilson. *Southern Economic Journal* 77(4), 991-1013, 2011.
- “Measuring the Regional Economic Response to Hurricane Katrina,” with Bradley Ewing and Mark Thompson. *CE.Sifo Forum*, 11(2), 80-85, 2010.
- “An Experimental Examination of Market Concentration and Capacity Effects on Price Competition,” with Bradley Ewing. *Journal of Business Valuation and Economic Loss Analysis*, 5, 2010, pp 1-16.
- “An Economic Analysis of Wind Resistant Construction,” with Dakshina DeSilva and Dan Sutter, *Journal of Wind Engineering and Industrial Aerodynamics*, 97, 2009, pp. 113-119.
- “Modeling the Time-Varying Volatility of the Paper-Bill Spread,” with B. Ewing, G. J. Lynch, and F. Malik. *Journal of Economics and Business* 61, 2009, pp 404-414.
- “An Overview of Hurricane Katrina and Economic Loss,” with B. Ewing and D. Sutter *Journal of Business Valuation and Economic Loss Analysis* 4(2) 2009, pp 1-12.
- “Twister! Employment Responses to the May 3, 1999 Oklahoma City Tornado,” with B. Ewing and M. Thompson. *Applied Economics* 41 (6) March 2009, pp 691-702.
- “A Multidisciplinary Plan for Executive Education and Lifelong Learning Programs in Wind Science and Engineering,” with B. Ewing and M. Thompson *International Journal of Continuing Education and Life-Long Learning* 19(1) 2009, pp 74-81.
- “Spatial Dependencies in Wind-Related Housing Damage,” with D. De-Silva and Y. Wang *Natural Hazards* 47, March 2008, pp 317-330.
- “Simulated and Real Buyers in Posted Offer Markets,” *Handbook of Experimental Results*, Vol. 1, 2008, Vernon L. Smith and Charles Plott, eds, North Holland/Elsevier Press, Amsterdam. ISBN 0-444-82642-8, pp. 71-76.
- “Transmission of Shocks Among Health Care Sector Index Returns,” with B. Ewing and M. Thompson *Applied Financial Economics Letters* 4, 2008, pp 71-75.
- “Analysis of Time-Varying Turbulence in Geographically Dispersed Wind Energy Markets,” with B. Ewing and M. Thompson. *Energy Sources, Part B: Economics, Planning and Policy* 2008, pp. 340-347.
- “Viewscapes and Flood Hazard: Coastal Housing Market Response to Amenities and Risk,” with O. Bin, T. Crawford and C. Landry *Land Economics* 84(3) 2008, pp.434-448.

- “Flood Hazards, Insurance Rates, and Amenities: Evidence from the Coastal Housing Market,” with O. Bin, and C. Landry *Journal of Risk and Insurance* 75(1), 2008, pp. 63-82.
- “Wind Hazard Risk Perception: an experimental test,” with B. Ewing and M. A. Thompson *Experimental Methods, Environmental Economics* Vol. 8, 2008, T. Cherry, S. Kroll and J. Shogren, eds., Routledge. ISBN 0-415-77072-6, pp. 395-406.
- “Valuing Human Organs: an application of contingent valuation,” with A. Altinanahtar and S. Crooker *International Journal of Social Economics* 35(1/2), 2008 pp. 5-14.
- “Hurricanes and Economic Research: an introduction to the Hurricane Katrina Symposium,” with B. Ewing and D. Sutter *Southern Economic Journal* 74(2), October 2007 pp. 315-25.
- “The Prime Rate-Deposit Rate Spread and Macroeconomic Shocks,” with B. Ewing. *Advances in Quantitative Analysis of Finance and Accounting* Vol. 5, 2007, Cheng-Few Lee, ed. World Scientific Publishing, Hackensack, New Jersey, USA ISBN 978-981-270-628-7, pp 181-198.
- “Time Series Analysis of Wind Speed Using VAR and the Generalized Impulse Response Technique,” with B. Ewing, J. Schroeder and D. Smith. *Journal of Wind Engineering and Industrial Aerodynamics* (Journal of American Society of Civil Engineers) 95, 2007, pp 209-19.
- “Local Housing Price Index Analysis in Wind-Disaster-Prone Areas,” with B. Ewing and Y. Wang, *Natural Hazards* 40(2), Feb. 2007, pp 463-83.
- “Real Estate Market Response to Coastal Flood Hazards,” with O. Bin. *Natural Hazards Review* (Journal of American Society of Civil Engineers) 7(4), November 2006, pp.137-44.
- “Valuing Self Protection: Income and Certification Effects for Safe Rooms,” with B. Ewing. *Journal of Construction Management* 24(10), 2006, pp. 1057-68.
- “Insurer Stock Price Responses to Hurricane Floyd: an event study analysis using storm characteristics,” with B. Ewing and S. Hein. *Weather and Forecasting* (Journal of American Meteorological Society) 21(3) June 2006, pp 395-407.
- “Catastrophe Induced Destruction and Reconstruction,” with D. DeSilva and Y. Wang. *Natural Hazards Review* (Journal of American Society of Civil Engineers) 7(1), February 2006, pp.19-25.
- “Time Series Analysis of Wind Speed with Time-Varying Turbulence,” with B. Ewing and J. Schroeder, *Environmetrics* 17, March 2006, pp 119-27.
- “Transmission of Employment Shocks Before and After the Oklahoma City Tornado,” with B. Ewing and M. Thompson. *Environmental Hazards* 6(4), 2005, pp. 181-8.
- “An Empirical Examination of the Corpus Christi Unemployment Rate and Hurricane Bret,” with B. Ewing and M. Thompson. *Natural Hazard Review*, (Journal of the American Society of Civil Engineers) 6(4) November 2005, pp 191-196.
- “Market Forces and Price Ceilings: a classroom experiment,” with O. Ozdemir and M. Thompson, *International Review of Economics Education*, 4(2) 2005 pp73-86.
- “Comparing the impact of news: A tale of three health care sectors” with B. Ewing and M. Thompson, *Journal of Business Finance and Accounting*, 32(7&8), September/October 2005, pp 1587-611.
- “Analysis of Local Labor Market Responses to Tornadoes,” with B. Ewing and M. Thompson. *Economics and Wind*, B. T. Ewing and J. B. Kruse, eds. Nova Science Publishing, 2005, pp 25-34.
- “Fujita Scale and Dollar Losses: evidence from the May 1999 Oklahoma City Tornado,” with D. DeSilva and Y. Wang. *Economics and Wind*, B. T. Ewing and J. B. Kruse, eds. Nova Science Publishing, 2005, pp 13-24.
- “Risk Mitigation: individual and market behavior,” with K. Simmons. *Economics and Wind*, B. T. Ewing and J. B. Kruse, eds. Nova Science Publishing, 2005, pp 73-88.
- “Valuing Saferooms in Hurricane Prone Regions,” with J. Crooker. *Economics and Wind*, B.T. Ewing and J. B. Kruse, eds. Nova Science Publishing, 2005, pp 139-48.

- “Disaster Losses in the Developing World: evidence from the August 1999 earthquake in Turkey,” with B. Ewing and O. Ozdemir, *Economic Development – Issues and Policies*, N. Narayana, editor, Vol.2 pp 1017-1033, 2005, Serials Publications, New Delhi.
- “Employment Dynamics and the Nashville Tornado,” with B. Ewing and M. Thompson, *Journal of Regional Analysis and Policy* 34(2) 2004, pp. 47-60.
- “Forecasting the Volatility of Health Care Stocks,” with B. Ewing and M. Thompson. *Revista Brasileira de Economia de Empresas/Brazilian Journal of Business Research* 4(2) pp7-18, December 2004.
- “Money Demand and Risk: A Classroom Experiment,” with B. Ewing and M. Thompson. *Journal of Economic Education*, 35(3) pp 243-50, Summer 2004.
- “A Comparison of Employment Growth and Stability Before and After the Fort Worth Tornado,” with B. Ewing and M. Thompson, *Environmental Hazards* 5(3-4) pp 83-91, 2003.
- “Valuing Low Probability Risk: Survey and Experimental Evidence,” with M. A. Thompson, *Journal of Economic Behavior and Organization* Vol. 50, No. 4, pages 494-504, April 2003.
- “An Experimental Examination of Vertical Integration and Cost Predation,” with S. R. Elliott and R. Godby, *International Journal of Industrial Organization* Vol 21, No. 2, pages 253-81, February 2003.
- “The Impact of *Project Impact* on the Wilmington, NC Labor Market,” with B. Ewing, *Public Finance Review*, Vol. 30, No. 4, pages 296-309, July 2002.
- “Valuing Mitigation: Real Estate Market Response to Hurricane Loss Reduction Measures,” with K. Simmons and D. A. Smith. *Southern Economic Journal*, Vol. 68, No. 3, pages 660-71, January 2002.
- “A Comparison of Salient Rewards in Experiments: Money and Class Points,” with M. A. Thompson. *Economic Letters* Vol 74, pages 113-7, December 2001.
- “Rationing Supply Capacity Shocks: An Experimental Comparison of Practical Curtailment Mechanisms,” with S. Elliott, W. Schulze, and S. Ben-David, *Research in Experimental Economics*, Vol. 8, pages 153-83, R. Mark Isaac, ed. JAI Press Inc. Greenwich, CT, 2001.
- “Market Value of Mitigation and Perceived Risk: Empirical Results,” with K. Simmons, *Journal of Economics*, Vol. XXVI, No. 1, pages 41-52, 2000.
- “Location, Cooperation, and Communication: an experimental examination,” with D. J. Schenk, *International Journal of Industrial Organization*, Vol. 18, pages 59-80, January 2000.
- “An Experimental Analysis of Emission Permits with Banking and the Clean Air Act Amendments of 1990,” with M. B. Cronshaw, *Research in Experimental Economics*, Vol. 7, pages 1-24, R. Mark Isaac and Charles Holt, eds. JAI Press, Stamford, CT, 1999.
- “Temporal Properties of a Market for Emission Permits,” with M. B. Cronshaw, *Research in Experimental Economics*, Vol. 7, pages 181-203, R. Mark Isaac and Charles Holt, eds. JAI Press, Stamford, CT, 1999.
- “The Decline of the Royal African Company: An Application of a Dynamic Dominant Firm Model,” with A. Carlos, *Economic History Review*. XLIX Vol. 2, pages 295-317, March 1996.
- “Regulated Firms in Pollution Permit Markets with Banking,” with M. B. Cronshaw, *Journal of Regulatory Economics*. Vol. 9, pages 179-89, March 1996.
- “Bertrand-Edgeworth Competition in Experimental Markets,” with S. Rassenti, S. Reynolds and V. Smith, *Econometrica*. Vol. 62, No. 2, pages 343-71, March 1994.
- “Gender Effects in Laboratory Public Goods Contribution: Do individuals put their money where their mouth is?” with D. Hummels, *Journal of Economic Behavior and Organization*. Vol. 22, pages 255-67, December 1993.
- “Nash Equilibrium and Buyer Rationing Rules: An Experimental Analysis,” *Economic Inquiry*. Vol. XXI, pages 631-46, October 1993.
- “Theory and Experiments on Spatial Competition,” with M. Cronshaw and D. J. Schenk, *Economic Inquiry*, Vol. XXXI, pages 139-65, January 1993.

“Contestability in the presence of an alternate market: an experimental examination,” *RAND Journal of Economics*, Vol. 22, No. 1, pages 136-47, Spring 1991.

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#### ARTICLES, INDUSTRY-BASED PERIODICALS, QUOTES

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Quoted in “US Coastal Growth Continues Despite Lessons of Past Storms,” by Jeff Donn, national writer, The Associated Press, September 17, 2017. Article appeared in numerous news outlets including *Chicago Tribune* and PBS.

Interviewed by Jess Bidgood, *New York Times*/Boston Bureau regarding recovery after Hurricane Mathew floods. September 5, 2017.

Interviewed by Jonathan Schuppe, writer NBC News regarding Houston and the regions short and long term recovery after Hurricane Harvey August 29, 2017.

Quoted in “Nearly one month after Hurricane Mathew, people still displaced, roads still closed,” by Andrew Barksdale, *Fayetteville Observer* November 5, 2016.

Interviewed by Theo Meyer for *Propublica* regarding a series of stories on the challenge of coastal rebuilding as the climate changes. September 26, 2013.

Interviewed by Prashant Gopal for *Bloomberg News* regarding superstorm Sandy. November 5, 2012.

Quoted in “Disaster Stimulus: The Upside of Irene in Vermont,” by Jennifer DePaul *The Fiscal Times*, September 30, 2011. <http://www.thefiscaltimes.com/Articles/2011/09/30/Disaster-Stimulus-The-Upside-of-Irene-in-Vermont.aspx#page1>

Quoted in “Reconstruction Lifts Economy After Disasters” by Michael Cooper, *New York Times*, page 1, May 31, 2011.

[http://www.nytimes.com/2011/06/01/us/01storm.html?\\_r=1&scp=1&sq=reconstruction+lifts+economies+after+disasters&st=nyt](http://www.nytimes.com/2011/06/01/us/01storm.html?_r=1&scp=1&sq=reconstruction+lifts+economies+after+disasters&st=nyt)

“Is Healthcare Financing Upside Down? A Commentary on the Healthcare Investment Decision,” with J. Buessler and B. Ewing, *Medical Group Management Association Connexion*, Vol 3, No. 2, pages 16-18, February 2003.

“Does a Market for Mitigation Exist?” with K Simmons, *Disaster Safety Review*, Vol. 1, No. 1, 2002.

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#### REFEREED PROCEEDINGS, POLICY BRIEFS & ABSTRACTS

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“*Policy Brief* Factors that Affect Homeowner Retrofit Decisions to Reduce Wind and Flood Damage,” with Rachel A. Davidson, Joseph E. Trainor, and Linda K. Nozick, Department of Homeland Security, 2018.

“*Policy Brief* Homeowner purchase of insurance for hurricane-induced wind and flood damage,” with Rachel A. Davidson, Joseph E. Trainor, and Linda K. Nozick, Department of Homeland Security, 2017.

“Modeling Government Interventions in a Natural Catastrophe Insurance Market.” With Y. Gao, L. Nozick, and R. Davidson, *5<sup>th</sup> International Disaster and Risk Conference IDRC*, August 2014, Davos, Switzerland. 399-402.

“Insurance and retrofit in Managing Urban Natural Disaster Risk,” with J. Peng, Y. Gao, X. Shan, Y. Kesete, R. Davidson, and L. Nozick, *Third International Conference on Urban Disaster Reduction and Sustainable Recovery: addressing risks and uncertainty*, September 2014, Boulder, Colorado.

“Math Modeling to Support Regional Natural Disaster Risk Management,” with J. Peng, X. Shan, R. Davidson, Y. Kesete, Y. Gao and L. Nozick, *Proceedings 10<sup>th</sup> National Conference in Earthquake Engineering*, Earthquake Engineering Research Institute, July 2014, Anchorage, AK.

“Economics of Natural Hazards,” with C. Landry, *Encyclopedia of Environmental Economics*, edited by J. Whitehead, 2014.

“Economics of Disasters,” World Congress of Oceans, Dalian, China, page 147, September 2012.

“Valuing Spatially Integrated Amenities and Risks in Coastal Housing Markets,” with O. Bin, T. Crawford, and C. Landry, *Proceedings of the 3<sup>rd</sup> World Congress of Environmental and Resource Economists*, Kyoto, Japan, 2006.



- “Transmission of Labor Market Risk Across Regions, Evidence from the May 3 1999 Oklahoma City Tornado,” with B. Ewing and M. Thompson, *Proceedings of the 10<sup>th</sup> Americas Conference on Wind Engineering*, Baton Rouge, LA, 2005.
- “Spatial Dependencies in Wind-Related Housing Damage,” with D. DeSilva and Y. Wang, *Proceedings of the 10<sup>th</sup> Americas Conference on Wind Engineering*, Baton Rouge, LA, 2005.
- “Risk Mitigation: Individual and Market Behavior,” with K. Simmons, *Proceedings of the 11<sup>th</sup> International Conference on Wind Engineering*, Lubbock, Texas, 2003.
- “A Qualitative Possibility Theory Approach on an Illustrative Example: The Hurricane Evacuation Decision,” with X. Gilliam and T. Tiglioglu, *Proceedings of the 11<sup>th</sup> International Conference on Wind Engineering*, Lubbock, Texas, 2003.
- “Labor Market Responses to Tornadoes,” with B. Ewing and M. Thompson, *Proceedings of the 11<sup>th</sup> International Conference on Wind Engineering*, Lubbock, Texas, 2003.
- “The United States in the Global Soybean Market: Where do we go from here?” with C. Bolling and A. Somwaru, Selected Paper American Agricultural Economics Association, 16 pages, 2001.
- “The Oklahoma City Tornado Outbreak: A Wind Damage-Economic Loss Interface,” with M. Thompson, D. Smith, R. Peterson, E. Shaw, and K. Simmons, *Proceedings: Americas Conference on Wind Engineering*, 9 pages, Clemson, SC, 2001.
- “Radar-Derived Analysis of the 3 May 1999 Oklahoma City Tornado and Comparison to Damage Estimates,” with E. Shaw, R. Peterson, M. Thompson, D. Smith, and K. Simmons, *Proceedings: Americas Conference on Wind Engineering*, 11 pages, Clemson, SC, 2001.
- “An Application of Fuzzy Logic to Explain Hurricane Evacuation Behavior,” with T. Tiglioglu, and R. McComb, *Proceedings: Americas Conference on Wind Engineering*, 10 pages, Clemson, SC, 2001.
- “Hurricane Bertha and Unemployment: A Case Study of Wilmington, NC,” with B. Ewing, *Proceedings: Americas Conference on Wind Engineering*, 6 pages, Clemson, SC, 2001.
- “The United States as a Dominant Producer in Corn and Soybean Markets: Policy Implications,” *Agricultural and Resource Economics Review*, Vol 29, No. 2 page 252, October 2000.
- “Nashville tornado-economic damage estimation using tax assessor and insurance data,” with K. Simmons and T. Tiglioglu, *Wind Engineering into the 21<sup>st</sup> Century*, pages 1431-6, A. Larsen, ed. A. A. Balkema, Rotterdam/Brookfield, 1999.
- “Voluntary Selection of Real Time Pricing: Laboratory Evidence,” *Federal Forecasters' Conference 1993: Papers and Proceedings*. Ron Early, ed.

## REPORTS

- “Center for Natural Hazards Research: Ten Years of Teaching Research and Service,” UNC Board of Governors, 2015.
- Independent Peer Review of “Recommendations for Excessive Share Limits in the Northeast Multispecies Fishery,” New England Fishery Management Council. Newburyport, MA, 2014.
- Joint Summary Report of Peer Review Meeting “Recommendations for Excessive Share Limits in the Northeast Multispecies Fishery,” with E. Thunberg (chair), T. Bjorndahl, A. Schmitz, and Q. Weninger, Salem, MA, June 2014.
- Processes and Mentoring for Promotion: Report by external team to University of North Texas, Denton, TX, 2013.
- Coastal and Sustainable Environment Research and Education Plan: Report to the ECU Academic Council, 2013.
- Economics of Severe Weather Warnings, White Paper, Weather Ready Nation Workshop, Birmingham, AL, 2012.
- External Program Review of the Northeast Fisheries Science Center Social Science Branch: Report of Findings and Recommendations, Woods hole, MA, 2011.

Hazards Research Activities, Five Year Report 2004-2009, Center for Natural Hazards Research, East Carolina University, 2009.

Annual Report, Renci@ East Carolina University Center for Coastal Systems Informatics and Modeling, Report to the Renaissance Computing Institute, 2008.

Annual Report, Renci@ East Carolina University Center for Coastal Systems Informatics and Modeling, Report to the Renaissance Computing Institute, 2007.

“Wind Disasters and Bank Performance,” with Bradley Ewing and Scott Hein, Report to the Federal Deposit Insurance Corporation, Office of Financial Research, 2006.

“An Economic Analysis of Wind Resistant Construction,” with Dakshina DeSilva and Dan Sutter, Report to the Department of Commerce, National Institute of Standards and Technology, Windstorm Mitigation Initiative, 2005.

“Transmission of Labor Market Shocks across Regions: Evidence from the May 3, 1999 Oklahoma City Tornado,” with Bradley Ewing and Mark Thompson, Report to the Department of Commerce, National Institute of Standards and Technology, Windstorm Mitigation Initiative, 2005.

“Valuing Self Protection: Income and Certification Effects for Safe Rooms,” with Bradley Ewing, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2005.

“Spatial Dependencies in Wind-Related Housing Damage,” with Dakshina DeSilva and Yongsheng Wang, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2005.

“Labor Market Effects of the Oklahoma City Tornado: a time series panel data analysis,” with Bradley Ewing and Mark Thompson, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2004.

“Local Housing Price Index Analysis in Wind-Disaster-Prone Areas,” with Bradley Ewing and Yongsheng Wang, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2004.

“Wind Loss Measurement Using Multiple Data Sources,” Report to the Department of Commerce, Windstorm Mitigation Initiative, 2003.

“The Economic Impact of the Fort Worth Tornado on Employment,” with Bradley Ewing and Mark Thompson, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2003.

“Wind Loss Measurement Using Multiple Data Sources,” Report to the Department of Commerce, Windstorm Mitigation Initiative, 2003.

“Insurer Stock Price Responses to Hurricane Floyd: an event study analysis using storm characteristics,” with Bradley Ewing and Scott Hein, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2003.

“Valuing Safe Rooms in Hurricane Prone Regions,” with John Crooker, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2003.

“The Impact of the Fort Worth Tornado on Employment,” with Bradley Ewing and Mark Thompson, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2003.

“The Impact of the Nashville Tornado on Employment,” with Bradley Ewing and Mark Thompson, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2003.

“The Impact of the Oklahoma City Tornado on Employment,” with Bradley Ewing and Mark Thompson, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2002.

“Report on Saferoom Investment,” Report to the Department of Commerce, Windstorm Mitigation Initiative, 2001.

“Risk Perception and the Value of Safety: In-residence Storm Shelters in Tornado-Prone Areas,” with Ozlem Ozdemir, Report to the Department of Commerce, Windstorm Mitigation Initiative, 2000.

- “Big 12 Faculty Fellowship Program: Iowa State University,” Report to the Texas Tech University Provost, 1997.
- “Business Cycles and Uncertainty: Determination of Access Fees to Real Time Pricing Programs,” with W. D. Schulze and G. McClelland, Report to Niagara Mohawk, 1993.
- “An Experimental Analysis of Emission Permits with Banking and the Clean Air Act Amendments of 1990,” with Mark B. Cronshaw, Report to the Department of Energy, 1992.
- “Experimental Study of Marketable Emission Permits for Reduction of Acid Rain,” with Mark B. Cronshaw, Report to the Department of Energy, 1990.
- “Optimal Rationing: A Comparison of Priority Service and Proportional Curtailment,” with S. R. Elliott, S. Ben-David, W. D. Schulze D. F. Spulber, and M. Doane, Report to Niagara Mohawk, 1990.
- “Farm Management Systems,” Colorado State University Experiment Station Bulletin, with C. K. Gee and A. G. Madsen, 1986.
- “Structure of the Colorado Beef Industry,” Special Report, Eastern Livestock Round-up. Cooperative Extension Service, Western Livestock Marketing Information Project, Colorado State University. with A. G. Madsen and C. K. Gee, 1985.

#### PROFESSIONAL MEMBERSHIPS

American Economic Association, Economic Science Association, Southern Economic Association, Society for Risk Analysis, Society for Economic Measurement.

#### GRANTS (\$24.9 MIL EXTERNAL, \$43 THOUSAND INTERNAL)

- National Science Foundation #CMMI 1830511 “LEAP-HI: Embedding Regional Hurricane Risk Management in the Life of a Community: A Computational Framework,” Total Award \$2.0 mil, ECU Award \$504,000, 2018-2023.
- National Science Foundation, #CMMI 1638224 “CRISP type 2/Collaborative Research: Scalable Decision Model to Achieve Local and Regional Resilience of Interdependent Critical Infrastructure Systems and Communities,” Total Award \$2.5 mil, ECU Award \$132,987 2016-2020.
- National Science Foundation, Research for Undergraduates (REU) Supplement to “Collaborative Research: An Interdisciplinary Approach to Modeling Multiple Stakeholder Decision-Making to Reduce Regional Natural Disaster Risk,” \$5,000, 2016-2017.
- US Geological Survey #G16AC00058 “Creating a Vision and Action Plan for Measurement of Socioeconomic Benefits of Geospatial Information” \$30,000, 2016-2018.
- Department of Homeland Security/UNC Chapel Hill, “An interdisciplinary approach to household strengthening and insurance decisions,” \$5,515, 2016-2018.
- National Aeronautics and Space Administration #NNX15AT69G “Data to Decisions: social and economic benefits of earth observations,” \$45,131, 2015-2017.
- National Science Foundation, #1433622 “Collaborative Research: An Interdisciplinary Approach to Modeling Multiple Stakeholder Decision-Making to Reduce Regional Natural Disaster Risk,” \$67, 612, total award \$350,000 2014-2018.
- National Science Foundation, #1000251 “Development of a quantitative model for measuring regional economic resilience to hurricanes,” total award \$278,726 subaward total \$91,360, 2010-2013.
- National Institute for Standards and Technology, #60NANB10D016 “Modeling Natural Disaster Risk Management: A Stakeholder Perspective,” total award \$750,000 subaward total \$125,000, 2010-2013.
- RENCI@East Carolina University, Coastal Systems Informatics and Modeling (C-SIM) Phase 2, Cooperative Agreement with Renaissance Computing Institute, Co-investigator, total support \$250,000, 2009-2012.

RENCI@East Carolina University, Coastal Systems Informatics and Modeling (C-SIM) Cooperative Agreement with Renaissance Computing Institute, Director, total support \$1.7 mil, 2006-2009.

National Science Foundation, #0554987, "The New New Orleans: Evaluating Preferences for Rebuilding Plans After Hurricane Katrina," Principal Investigator, \$172,596, 2006-2008.

National Science Foundation, #0553108, "Collecting Economic Impact Data: Implications for Disaster Areas and Host Regions," Principal Investigator, \$29,881, 2005-2006.

East Carolina University, Research Development Grant Program, "Spatial, Environmental and Behavioral Determinants of Valuation of Coastal Erosion Risk," Total support \$30,000. PI with co-investigators O. Bin, T. Crawford, and C. Landry, 2005-2006.

Federal Deposit Insurance Corporation, "Natural Disasters and Bank Performance," total support \$10,000, 2005-2006.

National Institute of Standards and Technology/Texas Tech University Cooperative Agreement, Wind Mitigation Initiative Year 7, total support \$2 million, Consultant for Research Thrust C: Windstorm Economics, 2004-2005.

National Institute of Standards and Technology/Texas Tech University Cooperative Agreement, Wind Mitigation Initiative Year 6, total support \$2.36 million, Principal Investigator for Research Thrust C: Windstorm Economics (\$218,015), 2003-2004.

National Institute of Standards and Technology/Texas Tech University Cooperative Agreement, Wind Mitigation Initiative Year 5, total support \$1.59 million, Principal Investigator for Research Thrust C: Windstorm Economics (\$174,065), 2002-2003.

National Science Foundation, IGERT, "Multidisciplinary Program in Wind Science and Engineering," Co-PI, total support \$2.26 million. 2002-2007.

Advanced Research Program, Texas Higher Education Coordinating Board, "The Economic Impact of Windstorms and Mitigation on the Texas Labor Market," with B. Ewing, \$65,760. 2001-2003.

National Institute of Standards and Technology/Texas Tech University Cooperative Agreement, Wind Mitigation Initiative Year 4, total support \$1.59 million, Principal Investigator for Research Thrust C: Windstorm Economics (\$210,029), 2001-2002.

National Institute of Standards and Technology/Texas Tech University Cooperative Agreement, Wind Mitigation Initiative Year 3, total support \$1.3 million, Principal Investigator for Research Thrust C: Windstorm Economics (\$163,851), 2000-2001.

National Science Foundation, Natural and Technological Hazard Mitigation Program, Cooperative Program in Wind Engineering, Co-Principal Investigator, \$20,000, 1999-2000.

National Institute of Standards and Technology/Texas Tech University Cooperative Agreement, Wind Mitigation Initiative Year 2, total support \$1.2 million, Principal Investigator for Research Thrust C: Windstorm Economics, (\$147,824), 1999-2000.

Texas Tech University Research Enhancement Grant, "The M1 Velocity Puzzle and the Friedman Hypothesis: Laboratory Experiments," with B. Ewing, \$4,000, 1999-2000.

Natural Hazards Research and Applications Information Center Grant, "Modeling Hurricane Evacuation using Transportation Models and Fuzzy Logic," with T. Tiglioglu, \$3,000, 1999-2000.

National Science Foundation, Natural and Technological Hazard Mitigation Program, Cooperative Program in Wind Engineering, Co-Principal Investigator, total support \$350,000, (15%) \$52,500, 1998-9.

National Institute of Standards and Technology/Texas Tech University Cooperative Agreement, Windstorm Mitigation Initiative, total support \$3.6 million, Principal Investigator for Research Thrust 6: Wind Damage Economics (\$137,000), 1998-9.

National Science Foundation, Natural and Technological Hazard Mitigation Program, Cooperative Program in Wind Engineering, Co-Principal Investigator, total support \$320,000, (15%) \$50,000, 1997-8.

Texas Tech Teaching Learning and Technology Center Faculty Incentive Grant, “Experimental Economics in the Classroom: Experiential Learning Modules,” total support \$5,000, 1997-98.

Niagara Mohawk, “A Laboratory Experimental Examination of Hourly Integrated Pricing,” with G. McClelland, and W. D. Schulze, total support \$50,000, 1992-3.

Department of Energy, “Marketable Emissions Permits and the Clean Air Act of 1990,” total support \$33,582, 1991-2.

Department of Energy, “Experimental Study of Marketable Emissions Permits for Reduction of Acid Rain,” total support \$22,582, 1990-1.

University of Colorado Council on Research and Creative Work, “Pollution Permit Markets: An Investigation of Market Power and Information Conditions,” total support \$4,000, 1990-1.

Niagara Mohawk, “A Comparison of Rationing Mechanisms for Load Reduction,” with S. Elliott, S. Ben-David, W. D. Schulze, and D. Spulber, 1989-90.

University of Colorado Undergraduate Enrichment Award, "Market Learning Modules," awarded jointly with Mike McKee 1988-89.

#### PRESENTATIONS

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43<sup>rd</sup> Annual Natural Hazards Research and Applications Workshop, “Panel Discussion: Risk(y) Business: Persuading Investors to Fund Resilience,” Broomefield, CO July 2018.

Earth Science Information Partners (ESIP) Webinar “The Socioeconomic Value of Earth Science Data, Information and Applications,” June 2018.

Appalachian Experimental and Environmental Economics Workshop, Blowing Rock, NC April 2018.

Old Dominion University, Norfolk, VA March 2018.

Group on Earth Observations Conference, Washington, DC October 2017.

Southern Economics Association Meetings, Washington, DC November 2016.

Data to Decisions Workshop, OECD, Paris FRANCE March 2016.

Southern Economics Association Meetings, New Orleans, LA November 2015.

An Interdisciplinary Approach to Household Strengthening and Insurance Decisions, DHS Coastal Resilience Center, PI workshop, Washington, DC July 2015.

UNC Board of Governors Centers and Institutes Working Group. December 2014.

Assessing the Socioeconomic Impact and Value of Open Geospatial Information, Workshop Overview, George Washington University, Washington DC, October 2014.

Global Risk Forum IDRC Davos 2014, Davos Switzerland. August 2014.

World Congress of Ocean, Dalian, China “Economics of Disasters,” 2012

University of North Texas, Department of Economics, “Bringing Economic Research Methods to the Hazards and Disasters Table,” Denton, TX, 2012.

Texas A & M, Department of Marine Sciences at Galveston, “Through the Looking Glass: Social, Behavioral and Economic Sciences at NOAA,” Galveston, TX 2011.

The Role of Economics: Integrating Economics into the USGS Research Portfolio, USGS National Center, Reston, VA 2011.

The Will Mann Richardson Lecture Series, Austin College, “Social, Behavioral, and Economic Sciences at NOAA,” Sherman, TX 2011.

The McDonald-Mehta Lecture Series, Texas Tech University, “Social, Behavioral and Economic Sciences at NOAA,” Lubbock, TX 2011.

University of Nebraska, “Three papers illustrating research and discovery,” Lincoln, NE 2010.

Congressional Coastal States Caucus, “Coastal Ecosystems and Economies,” Washington, DC 2010.

University of Delaware, “Beautiful but Risky: Risk and Amenity Value in the Coastal Housing Market,” Newark, DE 2010.

National Academy of Science, Disasters Roundtable “Risk Assessment and Risk Management at NOAA,” Washington, DC 2010

NOAA Research Council Social Sciences Committee “Weathering the Storm: measuring household willingness-to-pay for risk reduction in post Katrina New Orleans,” Silver Spring, MD 2010.

NOAA Office of Atmospheric Research Executive Research Committee, "NOAA and Social Science." Washington, DC 2010.

Hazards and Disasters Researchers' Meeting, Invited Panel, "Toward a Natural Hazard Vulnerability and Resiliency Observatory (RAVON)" sponsored by National Science Foundation., Broomfield, CO 2009.

Enabling the Next Generation of Hazards and Disaster Researchers Summer Meeting, "Economics and Hazards," Broomfield, CO, 2009.

45<sup>th</sup> Werner Sichel Lecture Series, The Economics of Natural and Unnatural Disasters, Western Michigan University, Kalamazoo, MI, October 2008 (invited).

National Center for Atmospheric Research, Boulder, Colorado, June 2008 (invited).

Third International Symposium for the Prevention of Natural Disasters, Mexico City, Mexico May 2008 (invited).

Southern Economic Association Meeting, New Orleans, LA November 2007.

Texas Tech University, Wind Science and Engineering Seminar, Lubbock, TX November 2007 (invited).

National Science Foundation HSD PI's meeting, Arlington, VA October 2007.

Hazards and Disaster Researchers' Meeting, Boulder, CO, July 2007.

Texas Tech University, MBA Program for Physicians, Lubbock, TX, March, 2007 (invited).

University of Central Florida, Departmental Seminar, Orlando, FL, January, 2007 (invited).

RENCI Board of Governors, Chapel Hill, NC, December, 2006.

Southern Economic Association Meetings, Charleston, SC, November, 2006.

Emergency Management and Communication in North Carolina Workshop, Greenville, NC, November, 2006.

"The Business of Healthcare," Mini Research Symposium, ECU, Greenville, NC, November 2006.

Preparing for and Responding to Disasters in North America, San Antonio, TX, November 2006 (invited).

Tulane University, Katrina Research Symposium, New Orleans, LA, November 2006.

Texas A & M, Departmental Seminar, College Station, TX, October 2006 (invited).

University of Tennessee, Institute for Secure and Sustainable Environment, Knoxville, TN, October 2006.

National Science Foundation, HSD PI's Meeting, Washington, DC, September 2006.

Hazards and Disaster Researchers' Meeting, Boulder, CO, July 2006.

University of Tennessee, Departmental Seminar, Knoxville, TN, January 2006 (invited).

American Economic Association Meetings, Boston, MA, January 2006.

Southern Economic Association Meetings, Washington, D.C. November 2005.

32<sup>nd</sup> Annual Conference Council for Programs in Technical and Scientific Communication, Lubbock, TX, October 2005.

Americas Conference on Wind Engineering, Baton Rouge, LA, June, 2005.

Experimental Economics and Public Policy Workshop, Appalachian State University, Boone, NC, April 2005 (invited).

University of Nebraska, Lincoln, NE, Economics Department Visiting Scholar Series, March 2005 (invited).

Virginia Tech, Blacksburg, VA, Departmental Seminar, February 2005 (invited).

8<sup>th</sup> CEEL Workshop, Dynamic Choice and Experimental Economics, Bari, Italy, January 2005.

Southern Economic Association Meetings, New Orleans, LA, November 2004.

Southern Economic Association Meetings, San Antonio, TX, November 2003.

East Carolina University, Greenville, NC, Departmental Seminar, October 2003.

University of Oklahoma, Norman, OK, Departmental Seminar, March 2003 (invited).

Southern Economic Association Meetings, New Orleans, LA, November 2002.

Baylor University, Waco, TX, Economics Departmental Seminar, October 2002 (invited).

Economic Science Association International Meeting, Boston, MA, June 2002.

University of Fribourg, Switzerland, Economics Seminar, February 2002 (invited).

University of Zurich, Switzerland, Economics Seminar, December 2001 (invited).  
 University of Zurich, Switzerland, Institute for Empirical Research in Economics Brown Bag Seminar, November 2001.  
 Hazards Conference, Boulder, CO, (invited) July 2001.  
 Americas Conference on Wind Engineering, Clemson, SC, June 2001.  
 Public Choice Society Meetings, San Antonio, TX, March 2001.  
 Project Impact Summit, Washington, DC, November 2000 (invited).  
 Southern Economics Association Meeting, Washington, DC, November 2000.  
 Economic Science Association Regional Conference with special emphasis on Economics and Psychology. Tucson, AZ, September 2000.  
 Hazards Conference, Boulder, CO, (invited) July 2000.  
 INFORMS Spring 2000 Meeting, Salt Lake City, UT, (invited) May 2000.  
 Great Plains Outbreak of May 1999, Oklahoma City, OK, May 2000.  
 Public Policy Symposium, Reducing Losses from Windstorms, Washington, D.C., (invited) November 1999.  
 Southern Economics Association Meeting, New Orleans, LA, November 1999.  
 Heartland Environmental and Resource Economics Symposium, Ames, IA, (invited) September 1999.  
 Hazards Conference, Boulder CO, July 1999.  
 Economic Science Association Annual Meeting, Lake Tahoe, CA, May 1999.  
 Federal Emergency Management Agency, Washington, DC, March 1999 (invited).  
 Applied Economics Seminar, The Wharton School, University of Pennsylvania, Philadelphia, PA, November 1998 (invited).  
 Southern Economic Association Meeting, Baltimore MD, November 1998.  
 TAAC Meeting, Cooperative Project in Wind Engineering, Fort Collins, CO, October 1997.  
 Cooperative Project in Wind Engineering, Co-PI's Meeting, Baltimore, MD, June 1997.  
 Public Choice/Economic Science Association Annual Meeting, San Francisco, CA, March 1997.  
 Economics/Ag Economics Joint Seminar, Texas Tech University, Lubbock, TX, October 1996.  
 Econometric Society, North American Summer Meetings, Quebec, Canada, June 1994 (invited).  
 Economics Institute, Ukraine Delegation Short Course, Boulder, CO, February 1993.  
 American Economic Association Meetings, New Orleans, LA, (invited) January 1992.  
 Survival and Success for Women Faculty Spring Conference, University of Colorado, Boulder, CO, February 1992.  
 Econometric Society Winter Meetings, Atlanta, GA, December 1989.  
 American Economic Association Annual Meeting, CSWEP Session, (invited paper) Atlanta, GA, December 1989.  
 Economic Science Association Fall Workshop, Tucson, AZ, October 1988.  
 Public Choice/Economic Science Association Annual Meeting, Tucson, AZ, March 1987.  
 Economic Science Association Annual Meeting, Tucson, AZ, March 1986.  
 Economics Science Association Annual Meeting, Tucson, AZ March 1986.

#### COMMITTEES AND UNIVERSITY SERVICE

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Selection Committee, THCAS Distinguished Professor, 2018  
 Selection Committee, Southern Economic Association Elzinga Teaching Award, 2017, 2018.  
 ECU Chancellor's Committee on the Status of Women 2016-17  
 Search Committee, Health Economics, Chair, 2016-18  
 University Strategic Planning Committee, Co-chair, ECU School of the Coast, 2016-17  
 THCAS Voyages of Discovery Speaker Series Committee, 2015-2018  
 Search Committee, Chair of Department of Economics, 2015.  
 ECU Workgroup on Enhancing and Growing the Research Enterprise (EGRE)-NASA and NSF funding, 2014-5.

Search Committee, Joint Economics-Institute for Coastal Science and Policy, Assistant Professor, chair 2014-5.

Economics Concentration CRM PhD, Department of Economics, chair 2014-present.

Coastal Resources Management PhD Curriculum Committee, 2014-2016.

Coastal-Maritime Council, East Carolina University, chair 2013-2015, member since 2005.

Harriot College of Arts and Sciences Distinguished Professor selection committee, 2008, 2013, 2014, 2018 (Chair 2013).

University Committee on Coastal and Environmental Research and Education Plan, chair 2012-2013.

Economics Doctoral Planning Committee, East Carolina University, chair 2011-2014, member since 2006.

North Carolina Emergency Management/East Carolina University Annual Hurricane Conference Planning Group, 2010-present.

Search Committee, Associate Professor Center for Sustainable Tourism, 2012.

University Research Council, East Carolina University, 2011-2013.

Sustainable Tourism MS Steering Committee, 2010-2015.

Leadership Advisory Council, East Carolina University, 2008-2012.

Research Associate, Texas Tech University, Wind Engineering Research Center, 1996-2012.

Search Committee, Human Dimensions of Coastal Sustainability Program Head, UNC Coastal Studies Institute/East Carolina University joint position. Chair, 2007-2009.

Search Committee, Assistant Professor in the Institute for Coastal Science and Policy, East Carolina University, chair 2006-7.

Search Committee, Director of Institute for Interdisciplinary Coastal Science and Policy, East Carolina University, 2006-7.

Personnel Committee, East Carolina University, Department of Economics, 2005 (chair) 2006.

Research Committee, East Carolina University, Department of Economics, 2004-2005.

Technical Program Committee, International Conference in Wind Engineering, Lubbock, TX, 2002-2003.

Recruiting Director, Multidisciplinary Graduate Program in Wind Science and Engineering, 2002-2004.

Health Organization Management Executive Committee, 1998-2003.

Technical Program Committee, International Conference in Wind Engineering, Lubbock, TX, 2002-2003.

Invited Participant, Wharton/IBHS Roundtable on "Economic Incentives for Building Safer Communities" June, 2002.

National Science Foundation Chautauqua Course on Women and Minorities in the Sciences. May 2000.

Organizer Texas Tech Departmental Virtual Working Paper Series, 1999-2000.

University Committee, Strategic Plan for Research, Texas Tech, 1999.

University Committee, NCAA Self-Study, Fiscal Integrity Subcommittee, 1998-1999.

University Search Committee, Dean College of Business Administration, Texas Tech, 1997-8.

Organizer, Texas Tech Economics Seminar Series, 1997-8.

Search Committee, Assistant Professor Economics, Texas Tech, chair 1997-8.

University Committee, Dean's Small Grants Committee, University of Colorado, 1995.

Faculty member of traveling party, University of Colorado, President Albino's Summer Tour II-outreach to Northeastern Colorado, June 22-24, 1994.

University Institutional Review Board for the Protection of Human Subjects, University of Colorado, 1992-4.

Co-Associate Director of the Center for Economic Analysis, University of Colorado, 1992-3.

Committee on Undergraduate Review, University of Colorado, 1992-4.

Admissions and Fellowship Committee, University of Colorado, 1991-2.

SMART (Summer Minority Access to Research Training) Mentor, University of Colorado, 1990-2.

"COLORS OF COLORADO" Committee on the study of gender and ethnicity in teaching curriculum, University of Colorado, 1988-9.



Research Associate, Institute of Behavioral Science, Environment and Behavior Program, University of Colorado, 1988-95.

Micro Theory Search Committee, University of Colorado, 1988, 1991.

Program Review Self-Study Committee, University of Colorado, 1989.

#### REVIEWER/REFEREE WORK

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Agricultural Economics  
Canadian Journal of Economics  
Delaware Sea Grant  
Department of Homeland Security  
Economic Inquiry  
Energy Journal  
Environmental and Resource Economics  
Experimental Economics  
Experimental Methods for Environmental Economics (edited volume)  
The Geneva Papers on Risk and Insurance  
International Conference on Wind Engineering Proceedings  
International Journal of Game Theory  
International Journal of Industrial Organization  
Journal of Economic Behavior and Organization  
Journal of Economic Education  
Journal of Economic Psychology  
Journal of Economics and Management Strategy  
Journal of Environmental Economics and Management  
Journal of Forensic Economics  
Journal of Money Credit and Banking  
Journal of Public Health Management and Practice  
Journal of Risk and Insurance  
Journal of Risk and Uncertainty in Engineering Systems  
Kingdom of Saudi Arabia, Ministry of Higher Education  
Mississippi Alabama Sea Grant Consortium  
National Science Foundation  
Natural Hazards Review  
Physica A  
Public Finance Review  
Research in Experimental Economics  
Resource and Energy Economics  
Risk Analysis  
Southern Economic Journal  
Texas Sea Grant  
Weather and Forecasting (Journal of the American Meteorological Society)  
Wildfire and Fuels Management: Risk and Human Response (edited volume)

#### THESIS SUPERVISION

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Doctoral Dissertation, Chair

Eugene Frimpong, Ph.D. East Carolina University, Coastal Resources Management. In Progress.

Christina Wiegand, Ph.D. East Carolina University, Coastal Resources Management. In Progress.

Hillary Huffer, Ph.D. East Carolina University, Coastal Resource Management, ABD.

- Nahil Saqef AlHait, Ph.D. Texas Tech University (co-chair) Economics, "Tests of Alternative Predictions for One Shot and Repeated Game Environments: theory and experiments," 2005. University of Jordan, Amman, Jordan.
- Guillermo Covarrubias, Ph.D. Texas Tech University (co-chair) Economics, "Examination of Yield Spreads: Econometric Modeling and Forecasting." 2004. University of North Texas.
- Alper Altinanahtar, Ph.D. Texas Tech University "Analysis of a Market for Transplantable Organs," 2004, Yeditepe University, Istanbul, Turkey.
- Mark Thompson, Ph.D. Texas Tech University "Essays on the Economic Analysis of Risk," 2003, Georgia Regents University, Augusta, GA.
- Tufan Tiglioglu, Ph.D. Texas Tech University (co-chair) "Economic Analysis of Hurricane Evacuation," 2001, Alvernia College, Reading, PA.
- Ozlem Ozdemir, Ph.D. Texas Tech University "Risk Perception and the Value of Safety for Low Probability, High Consequence Risks: Theoretical and Empirical Investigation," 2000, Middle Eastern Technical University, Istanbul, Turkey.
- Kevin Simmons, Ph.D. Texas Tech University (co-chair) "Pricing of Mitigation Measures," 1999. Austin College, Sherman, TX.
- Arief Karseno, Ph.D. University of Colorado "Advertising, Market-Share and Profitability: An Experimental Study with Application to Indonesian Manufacturing," 1991. Gadjah Mada University, Yogyakarta, Indonesia.
- David Schenk, Ph.D. University of Colorado "Spatial Competition and Communication: Theory and Experiments," 1991.
- Steve Elliott, Ph.D. University of Colorado, "Innovative Rate Structures for Electrical Utility Peak Load Management: An Experimental Approach," 1990. Miami University at Oxford, Ohio.
- Doctoral Dissertation, Committee
- Zaneta Adme, Ph.D. East Carolina University, Coastal Resources Management. ABD.
- James Brinkley, Ph.D. East Carolina University, Coastal Resources Management. ABD.
- Martinez, Maribel, Ph.D. Texas Tech University, Wind Science and Engineering, "Economic Analysis of the Tornado Impact upon Two Communities," 2009.
- Andrea Jackman, Ph.D. Texas Tech University, Wind Science and Engineering, "An Analysis of the Cost of Hazard Mitigation Planning Policy in Local and Regional Government," 2008.
- Paul Hindsley, Ph.D. East Carolina University, Coastal Resource Management, "Discrete Choices in Coastal Environments: Addressing Confounding Factors in Random Utility Models." 2008.
- Yongsheng Wang, Ph.D. Texas Tech University, Economics, "Essays in Real Estate Finance and Economics." 2005.
- Omar Al-Zoubi, Ph.D. Texas Tech University, Economics, "Essays in Monetary and Fiscal Policy." 2003.
- Talah Arabiyat, Ph.D. Texas Tech University, Economics, "Essays in Commodity Asset Pricing and Yield Spreads," 2003.
- Ronald Daigle, Ph.D. Texas Tech University, Accounting, "Determining Individual Microeconomic Demand for Continuous Online Assurance Given Specific Types of Decisions," 2002.
- Richard Stemple, Ph. D. Texas Tech University, Economics, "Education earnings profile: gender differences," 2001.
- Farooq Malik, Ph.D. Texas Tech University, Economics, "Three Essays in Applied Financial Economics and Macroeconomics," 2000.
- Melissa Wiseman, Ph.D. Texas Tech University, Economics, "Faculty Performance Evaluation and Principal-Agent Concerns at Texas State Supported Universities," 1999.

- John Lovett, Ph.D. University of Colorado, Economics, second reader, Ph.D. "Congressional Legislation Involving White and Indian Affairs in the Early National Period: 1783-1802," 1995.
- Mary (Myung-Wook) Lee, Ph.D. University of Colorado, Economics, "Direct and Indirect Estimations of Non-Market Valuations using Bootstrap GMM-A case of Recreational Fishing in Central and Northern California," 1995.
- Jay Goodman, Ph.D. University of Colorado, Economics, "Temporary and Permanent Water Transfers Modeling the Water allocation Process in the Western United States," 1995.
- Lynne Lewis, Ph.D. University of Colorado, Economics, second reader, "Evaluating Opportunities for Interstate Water Sharing in the Western United States," 1994.
- Rebecca Boyce, Ph.D. University of Colorado, Economics, "Essays in Environmental Economics: Investigating Non-use Values, the WTA-WTP Disparity and the Reliability of the Contingent Valuation Method," 1993.
- Pat Fort, Ph.D. University of Colorado, Accounting, "Analysts' Forecast Accuracy and the Presentation of Mandated Accounting Changes," 1992.
- Joseph Sudia, Ph.D. University of Colorado, Business Administration, "Valuation Effects of Takeover Regulation on Multinational Bidders," 1992.
- Steve Paskin, Ph.D. University of Colorado, Accounting, "Some Economic Determinants of Discretionary Accounting Changes," 1989.
- Master's Thesis, Chair
- Jens Schubert, East Carolina University, "Portfolio life-cycle selection: theory and experiment," East Carolina University, 2006.
- Myung-Wook Lee, "Transferable Discharge Permits as a Means of Implementing Pollution Policy," University of Colorado, 1992.
- Xirun Liu, "Experimental Tests of the Rent v. Buy Decision," University of Colorado, 1990.
- Master's Thesis, Committee
- Pari Sivakumar, University of Colorado, 1994.
- Carl A. Taubel, University of Colorado, 1993.
- Eun Soo Kim, University of Colorado, 1989.
- University of Colorado, Undergraduate Honors Thesis, Chair
- Steven McPike, Cum Laude in Economics, 1995.
- Sonja De Lemos, Summa Cum Laude in Economics, 1995.
- Tamara Berner, Magna Cum Laude in General Honors, 1994.
- Debra T. Trapp, Summa Cum Laude in Economics, 1992.
- Veronica Chavez, Magna Cum Laude in Economics, 1991.
- David L. Hummels, Double Summa Cum Laude in Economics and Political Science, 1990.
- Texas Tech University, Research Experience for Undergraduates, CPWE
- Damon Dade, "Understanding the Texas Windstorm Insurance Association," 1998.
- Jay Miller, "Myopia and the Mitigation Decision," 1997.

#### COURSES TAUGHT

(University of Arizona, University of Colorado-Boulder, Texas Tech University, ETH-Zurich, East Carolina University)

##### Undergraduate

Antitrust and Regulation  
 Economic Research  
 Health Care Economics  
 Industrial Organization  
 Intermediate Microeconomic Theory  
 Introduction to Mathematical Economics  
 Managerial Economics

Principles of Macroeconomics

Principles of Microeconomics

Risk and Decision Making

Risk and Regulation

Graduate

Economics of Wind Damage and Risk Management

Experimental and Behavioral Economics

Health Care Economics

Industrial Organization

Microeconomic Theory

Risk Management and Insurance

Risk and Regulation

Quantitative Analysis