David Andrew Keiser

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OFFICE ADDRESS
Department of Economics
Iowa State University
Ames, Iowa 50011

EMPLOYMENT AND ACADEMIC AFFILIATIONS

2014 – present	Assistant Professor, Department of Economics, Iowa State University
2018 – present	Division Director, Resource and Environmental Economics, Center for Agricultural and Rural Development (CARD), Iowa State University
2014 – present	Faculty Affiliate, CARD, Iowa State University
2018 – present	Fellow, Center for Behavioral and Experimental Agri-Environmental Research (CBEAR)
2007	Environmental Litigation Consultant, Gilbert Randolph, LLP
2004 – 2007	Environmental Litigation Consultant, KCIC, LLC

EDUCATION

2014	Ph.D. Environmental and Natural Resource Economics, School of Forestry and Environmental Studies, Yale University
2012	M.Phil. Environmental and Natural Resource Economics, School of Forestry and Environmental Studies, Yale University
2009	M.S. Agricultural and Applied Economics, University of Georgia
2003	B.A. Mathematics/Religious Studies, University of Virginia

REFEREED PUBLICATIONS

Keiser, D.A., G.E. Lade, and I. Rudik. 2018. "Air Pollution and Visitation at U.S. National Parks." Forthcoming at *Science Advances*.

Cohen, A.W. and D.A. Keiser. 2017. "The Effectiveness of Incomplete and Overlapping Pollution Regulation: Evidence from Bans on Phosphate in Automatic Dishwasher Detergent." *Journal of Public Economics*, 150: 53-74. http://dx.doi.org/10.1016/j.jpubeco.2017.03.005

Keiser, D.A. and N.Z. Muller. 2017. "Air and Water: Integrated Assessment Models for Multiple Media." *Annual Review of Resource Economics*, 9: 165-184. http://www.annualreviews.org/doi/10.1146/annurev-resource-100516-053501

Kling, C.L., R.W. Arritt, G. Calhoun, and D.A. Keiser. 2017. "Integrated Assessment Models of the Food, Energy, and Water (FEW) Nexus: A Review and Research Needs." *Annual Review of Resource Economics*, 9: 143-163. http://www.annualreviews.org/doi/10.1146/annurev-resource-100516-033533

Keiser, A.D., D.A. Keiser, M.S. Strickland, and M.A. Bradford. 2014. "Disentangling the mechanisms underlying functional differences among microbial communities." *Journal of Ecology*, 102(3): 603-609. http://dx.doi.org/10.1111/1365-2745.12220

WORKING PAPERS

Keiser, D.A. and J.S. Shapiro. 2017. "Consequences of the U.S. Clean Water Act and the Demand for Water Quality." Conditionally accepted at *Quarterly Journal of Economics*.

Keiser, D.A. 2018. "The Missing Benefits of Clean Water and the Role of Mismeasured Pollution." Conditionally accepted at *Journal of the Association of Environmental and Resource Economists*.

Ji, Yongjie, D.A. Keiser, and C.L. Kling. 2017. "Temporal Reliability of Welfare Estimates from Revealed Preferences." Revise and resubmit at *Journal of the Association of Environmental and Resource Economists*.

Keiser, D.A., C.L. Kling, and J.S. Shapiro. 2018. "Does Current Water Quality Regulation Benefit the U.S.?" Revise and resubmit at *Proceedings of the National Academy of Sciences*.

"Water-based Recreation and Water Quality Indices: A Revealed Preference Approach." January 2017. (with Yongjie Ji and Catherine Kling)

"Adapting to Climate Change Through Tile Drainage: Evidence from Micro Level Data." November 2016. (with Kevin Meyer).

SELECTED WORK IN PROGRESS

"Does Water Quality Matter? Evidence from Micro Panel Data" (with Joe Herriges, Catherine Kling, and Dan Phaneuf)

"Economic Effects of Environmental Crises: Evidence from Flint, Michigan" (with Peter Christensen and Gabriel Lade)

"Income and Ocean Water Quality" (with Jennifer Duncan and Ivan Rudik)

NON-PEER REVIEWED PUBLICATIONS

Tang, C., G.E. Lade, D.A. Keiser, C.L. Kling, Y. Ji, and Y-H. Shr. 2018. "Economic Benefits of Nitrogen Reductions in Iowa." Mimeo, Iowa State.

Kling, C.L., R.W. Arritt, G. Calhoun, and D.A. Keiser. 2016. "Research Needs and Challenges in the Food, Energy, and Water System: Findings from an NSF Funded Workshop." CARD Agricultural Policy Review, Spring 2016.

Kling, C.L., R.W. Arritt, G. Calhoun, D.A. Keiser, J.M. Antle, J.G. Arnold, M. Carriquiry, I. Chaubey, P. Christensen, B. Ganapathysubramanian, P. Gassman, W. Gutowski, T.W. Hertel, G. Hoogenboom, E. Irwin, M. Khanna, P. Mérel, D. Phaneuf, A. Plantinga, S. Polasky, P. Preckel, S. Rabotyagov, I. Rudik, S. Secchi, A. Smith, A. Vanloocke, C. Wolter, W. Zhang, and J.Zhao. 2016. "Research Needs and Challenges in the FEW System: Coupling economic models with agronomic, hydrologic, and bioenergy models for sustainable food, energy, and water systems." Working Paper 16-WP 563, March 2016, Center for Agricultural and Rural Development, Iowa State University.

Cohen, A., and D.A. Keiser. 2015. "The Unintended Consequences of Household Phosphate Bans." CARD Agricultural Policy Review, Fall 2015.

GRANTS AND CONTRACTS

Total Awards: $2,046,513; Principal Investigator: $674,850; Co-Principal Investigator: $1,371,663

Iowa DNR, "Community Fishing Survey" (Principal Investigator), 2018, $14,850

USDA-NRCS, "Monetization of Water Quality Benefits of EQIP" (Co-Principal Investigator), 2017 – 2019, $150,000

Leopold Center for Sustainable Agriculture, "Information Provision, Rural Drinking Water Habits, and Pollution Exposure" (Co-Principal Investigator), 2017 – 2018, $35,000

Iowa Economic Development Authority and HUD, "Iowa Watershed Approach for Urban and Rural Resilience" (Co-Principal Investigator), 2017 – 2020, $195,000

USEPA, "Valuing Water Quality Improvements in Midwestern Ecosystems: Spatial Variability, Validity and Extent of the Market for Total Value" (Co-Principal Investigator), 2015 – 2018, $800,000

USDA, "Nudging in the Face of Risk and Ambiguity Aversion: Adopting Cover Crops to Reduce Nutrient Pollution" (Co-Principal Investigator), 2015 – 2018, $75,000

NSF - SESYNC, "The Value of Water Quality to Lake Recreation: Evidence from Geotagged Social Media" (Co-Principal Investigator), 2015-2016, $70,741

NSF, "FEW: Coupling Economic Models with Agronomic, Hydrologic, and Bioenergy Models for Sustainable Food, Energy, and Water Systems" (Co-Principal Investigator), 2015, $45,922

USDA-NIFA, "The Value of Water Quantity Versus Quality: Assessing The Tradeoffs Between Agricultural Yields and Downstream Uses of Water Resources" (Principal Investigator), 2014 – 2017, $660,000

CONFERENCES AND INVITED PRESENTATIONS

2018: National Academy of Sciences Sackler Colloquium on Economics, Environment, and Sustainable Development; USDA-NIFA

2017: AERE Session at AEA Annual Meetings; AERE Summer Conference (Discussant and Presenter); AERE Summer Pre-Conference Workshop; Cornell University; Economics of Water and Energy Workshop; Iowa State University; NBER EEE Summer Institute (Egg Timer); University of California, Davis; University of Wisconsin-Madison

2016: AAEA Annual Meeting; AERE Session at AEA Annual Meetings; Heartland Environmental and Resource Economics Workshop; University of Illinois at Urbana-Champaign; Iowa State University; University of Minnesota

2015: US EPA National Center for Environmental Economics; AERE Summer Conference; NSF Workshop on Food, Energy, and Water (Ames, IA)

2014: Connecticut Academy of Science and Engineering; Heartland Environmental and

Resource Economics Workshop

2013: AERE Summer Conference; Northeast Agricultural and Resource Economics Association Annual Meeting; Yale University Environmental Economics Seminar

2011: Yale University Environmental Economics Seminar; Yale University School of Forestry and Environmental Studies Doctoral Student Research Conference

2009: AAEA Annual Meeting; USDA SERA 30 Natural Resource Economics Meeting

OTHER RESEARCH ACTIVITIES

Principal Investigator, "Benefits and Costs of Natural Resources Policies Affecting Ecosystem Services on Public and Private Lands", USDA-NIFA, Hatch Multistate Project W3133, 2014 – present

Study Committee Member, "Methods to Measure Phosphorus and Make Future Projections", Prepared by the Connecticut Academy of Science and Engineering for the Connecticut Department of Energy and Environmental Protection, 2013 – 2014

Consultant, Pacific Adaptation to Climate Change Project, UNDP, 2011 – 2012

Research Assistant, Dr. Robert Mendelsohn, Yale University, 2011 – 2013

Research Assistant, Dr. Nathan Smith, University of Georgia, 2007 – 2009

SERVICE

Department

Curriculum Committee Member, 2016 – Present
Faculty Awards Committee Member, 2014 – 2016

Professional

AAEA Galbraith Forum and Award Committee, 2017 – 2018

Review Service

Agricultural and Applied Economics Association Annual Meetings; American Journal of Agricultural Economics; Environmental and Resource Economics; Environmental Science & Technology; Global Environmental Change; Journal of Environmental Economics and Management; Journal of Human Resources; Journal of the Association of Environmental and Resource Economists; Pedosphere; Proceedings of the National Academy of Sciences; South Asian Network for Development and Environmental Economics; U.S. Department of Agriculture; U.S. Environmental Protection Agency

TEACHING

Iowa State University

Principles of Microeconomics, (Undergraduate), Fall 2014 – 2017
Advanced Environmental Economics, (Graduate), Fall 2014 – 2017

Yale University, *Teaching Assistant*

Economics of Pollution Management, (Graduate), Spring 2012
Economics of the Environment, (Graduate), Fall 2011
Economics of Natural Resources, (Undergraduate/Graduate), Fall 2010

ADVISING

Doctoral Students (Chair or Co-Chair) and Placement

Kevin Meyer, June 2017 – Assistant Professor, Saginaw Valley State
Xianjun Qiu, June 2018 – Assistant Professor, Dongbei Univ. of Finance & Economics
Xibo Wan, Expected May 2021
Ashley Garrard, Expected May 2023

Master's Students (Chair or Co-Chair) and Placement

Ananyo Chakravarty, May 2015 – Business Manager, Ethos Group
Jennifer Duncan, Expected August 2018

FELLOWSHIPS AND HONORS

Yale University Doctoral Fellowship, 2009 – 2014

Nominee for the Conference of Southern Graduate Schools Master's Thesis Award in Social Sciences, Business, and Education, University of Georgia, 2010

Claudia DePalma Davis Outstanding M.S. Student, University of Georgia, 2009

Research Assistantship, University of Georgia, 2007 – 2009

University of Virginia Class of 2003 Trustee, 2002 – 2008

Valedictorian, Cave Spring High School, Roanoke, VA, 1999

REFERENCES

Available upon request.

Last Updated: June 2018