

**SARAH L. STAFFORD  
CURRICULUM VITAE**

**PERSONAL INFORMATION**

Date: December 10, 2023  
Office Address: 317 Chancellors Hall  
William & Mary  
Williamsburg, VA 23187  
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Home Address: 109 Adams St.  
Williamsburg, VA 23185  
Current Position: Chair of the Economics Department  
CSX Professor of Economics, Public Policy and Law

**EDUCATION**

Ph.D. in Economics, The Johns Hopkins University, December, 1998  
M.A. in Economics, The Johns Hopkins University, May, 1994  
B.S. in Foreign Service, Georgetown University, May, 1990

**POSITIONS AND EMPLOYMENT**

Chair, Department of Economics, William & Mary, July 2019 to Present  
Professor of Economics, Public Policy and Law, William & Mary, 2010 to Present  
Director, W&M Public Policy Program, William & Mary, July 2012 to June 2017  
Associate Director, W&M Public Policy Program, William & Mary, January 2009 to June 2012  
Associate Professor of Economics, William & Mary, 2004 to 2010  
Assistant Professor of Economics, William & Mary, 1998 to 2004  
Senior Associate, ICF Kaiser International, Fairfax, VA, 1990-1998

**EDITORIAL POSITIONS AND OFFICES HELD IN PROFESSIONAL SOCIETIES**

Member, Editorial Council, Journal of Environmental Economics and Management, 2016 to 2023  
Director, Eastern Economic Association, 2015 to 2018  
Secretary, Association of Environmental and Resource Economists, 2009 to 2013

**HONORS, PRIZES AND AWARDS**

CSX Professorship of Economics and Public Policy, 2021 - present  
Chancellor Professorship, William & Mary, 2020 - present  
Paul R. Verkuil Distinguished Professor of Public Policy and Economics, William & Mary, 2008 to 2011, 2015 to 2017  
Plumeri Award for Faculty Excellence, William & Mary, 2011

Coco Faculty Fellow, William & Mary, 2006 to 2007  
Dean's Distinguished Lecturer, William & Mary, 2006  
Alumni Fellowship Award for Excellence in Teaching, William & Mary, 2004

## **COURSES TAUGHT**

### Undergraduate Courses

Economic Analysis of Law  
Benefit Cost Analysis and Program Evaluation  
Environmental Economics  
Regulation of Markets  
Industrial Organization  
Intermediate Microeconomic Theory  
Principles of Microeconomics  
Policy Research Seminar (B.A. in Public Policy)  
Survey of Public Policy  
Solutions to Climate Change (Study Abroad in the Netherlands)

### Graduate Courses

Economic Analysis of Law (J.D. in Law)  
Benefit Cost Analysis and Program Evaluation (Masters in Public Policy)  
Microeconomic Theory (Masters in Public Policy)  
Policy Research Seminar (Masters in Public Policy)  
Regulation of Markets (Masters in Public Policy, J.D. in Law)

## **FELLOWSHIPS AND GRANTS**

### Fellowships, Grants, and Contracts Awarded by Outside Agencies

National Oceanic and Atmospheric Administration Grant, Co-Principal Investigator, "Measuring the Economic Impact of Recurrent Flooding on Workforce Productivity and Property: Testing the Return on Investment for Potential Adaptation Strategies to Inform Comprehensive Planning Practices and Enhance Regional Coastal Resilience," 2019 to 2021, \$296,040  
National Science Foundation Coastal SEES Grant, Co-Principal Investigator, "Sustainability in Chesapeake Bay Shorescapes: Climate Change, Management Decisions, and Ecological Functions," 2016 to 2020, \$407,673  
Blue Moon Fund, Principal Investigator, "Virginia Coastal Adaptation Data Portal Public Policy," 2015 to 2017, \$97,500  
U.S. Environmental Protection Agency, Science to Achieve Results (STAR) Grant, Principal Investigator, "Hazardous Waste Compliance and the Influence of Federal Initiatives, State Programs, and Corporate Characteristics," 2003 to 2007, \$137,997  
Resources for the Future Fellowship in Environmental Regulatory Implementation, 2003 to 2004, \$78,500  
National Science Foundation Grant, Co-Principal Investigator, "Intertemporal Decision Making Under Uncertainty: Experiments with Environmental Applications," 2003 to 2004, \$37,700

## Summer Grants and Faculty Research Assignments Received from William & Mary

Faculty Research Assignment, 2017 to 2018  
Faculty Interdisciplinary Incentives Grant, 2012  
Faculty Research Assignment, 2010 to 2011  
Faculty Research Assignment, 2005 to 2006  
Summer Research Grant, 2002  
Charles Center Faculty Fellowship, May 2001  
Summer Research Grant, 2000  
Summer Research Grant, 1999

## **RESEARCH**

### Peer-Reviewed Publications

- “Property owner shoreline modification decisions vary based on their perceptions of shoreline change and interests in ecological benefits” with Amanda Guthrie, Andrew Scheld, Karina Nunez and Donna Bilkovic, *Frontiers in Marine Science* Vol. 10 (2023)  
<https://doi.org/10.3389/fmars.2023.1031012>
- “Using Regulatory Inspection Data to Measure Environmental Compliance” in Measuring Compliance: Assessing Corporate Crime and Misconduct Prevention, Benjamin van Rooij and Melissa Rorie, Ed. Cambridge, UK: Cambridge University Press (2022)
- “Emphasizing Distributional Impacts in Discussing Solutions to Market Failures” *International Review of Environmental and Resource Economics*, Vol. 15, pp.175–202 (2021)
- “Regulating Hazardous Wastes under U.S. Environmental Federalism: The Role of State Resources” with Wes Blundell and Mary Evans, *Journal of Environmental Economics and Management*, Vol. 108 (2021)
- “Encouraging Living Shorelines Over Shoreline Armoring: Insights from Property Owners Choices in the Chesapeake Bay,” *Coastal Management*, Vol. 48(6), pp. 559-576 (2020)
- “What Drives Property Owners to Modify their Shorelines? A Case Study of Gloucester County, Virginia” with Amanda Guthrie, *Wetlands* Vol. 40(6), pp. 1739-1750 (2020)
- “The Clean Air Act Watch List and Federal Oversight of State Enforcement Efforts,” with Mary Evans, *Journal of Environmental Economics and Management*, Vol. 93, pp. 170-184 (2019)
- “Developing a Framework to Identify Local Business and Government Vulnerability to Sea-Level Rise: A Case Study of Coastal Virginia,” with Alexander d. Renaud, *Coastal Management*, Vol. 47(1), pp.44-66 (2019)
- “Measuring the Potential for Toxic Exposure from Storm Surge and Sea-Level Rise,” with Alexander d. Renaud, *Natural Hazards Review*, Vol. 20(1) (2019)
- “Were the 1982 Merger Guideline Old News?” with Alan J. Meese, *Journal of Competition Law and Economics*, Vol. 13(4), pp. 577-608 (2017)
- “Pipeline Performance and Safety in a Federal System: A Study of Natural Gas Pipeline Enforcement by States in the U.S.” *Journal of Transport Economics and Policy*, Vol. 51(3), pp. 193–207 (2017)
- “An Analysis of Methods for Identifying Socially Vulnerability to Climate Change and Sea Level Rise: A Case Study of Hampton Roads, Virginia,” with Jeremy Abramowitz, *Natural Hazards*, Vol. 85(2), pp. 1089-1117 (2017)
- “Environmental Management Systems and Compliance at Small and Lightly Regulated

- Facilities: Evidence from the New Hampshire Hazardous Waste Program” *Journal of Regulatory Economics*, Vol. 49, pp. 292-314 (2016)
- “Standardization and the Impacts of Voluntary Program Participation: Evidence from Environmental Auditing,” with Mary Evans and Lirong Liu, *International Review of Law and Economics*, Vol. 43, pp.10-21 (2015)
- “Will Additional Federal Enforcement Improve the Performance of Pipelines in the U.S.?” *International Review of Law and Economics*, Vol. 37, pp. 137-146 (2014)
- “How Predictable Are Environmental Compliance Inspections?” *Journal of Regulatory Economics*, Vol. 44(3), pp.361-388 (2013)
- “Do 'Carrots' Work? Examining the Effectiveness of EPA’s Compliance Assistance Program,” *Journal of Policy Analysis and Management*, Vol. 31(3), pp. 533–555 (2012)
- “A Facility-level Analysis of the Long-term Consequences of Environmental Auditing among Hazardous Waste Generators,” with Mary Evans and Lirong Liu, *Journal of Regulatory Economics*, Vol. 40(3), pp. 279-302 (2011)
- “Management of Hazardous Waste and Contaminated Land,” with Hilary Sigman, *Annual Review of Resource Economics*, Vol. 3, pp. 255–275 (2011)
- “How Green is Your Campus? An Analysis of the Factors that Drive Universities to Embrace Sustainability,” *Contemporary Economic Policy*, Vol. 29(3), pp.337-356 (2011)
- “Individual Decision Making Experiments with Risk and Intertemporal Choice,” with Lisa R. Anderson, *Journal of Risk and Uncertainty*, Vol. 38, pp.51-72 (2009)
- “Self-Policing in a Targeted Enforcement Regime,” *Southern Economic Journal*, Vol. 74, pp.934-951 (2008)
- “Should You Turn Yourself In? The Consequences of Environmental Self-Policing,” *Journal of Policy Analysis and Management*, Vol. 26, pp.305-326 (2007)
- “Can Consumers Enforce Environmental Regulations? The Role of the Market in Hazardous Waste Compliance,” *Journal of Regulatory Economics*, Vol. 31, pp.83-107 (2007)
- “Rational or Confused Polluters? Evidence from Hazardous Waste Compliance,” *Contributions to Economic Analysis and Policy*, Vol. 5: No. 1, Article 21 (2006). Reprinted in Hilary Sigman, ed. The Economics of Hazardous Waste and Contaminated Land, Northampton, MA: Edward Elgar, 2008
- “Does Crime Pay? A Classroom Demonstration of Monitoring and Enforcement,” with Lisa R. Anderson, *Southern Economic Journal*, Vol. 72, pp.1016-1025 (2006)
- “State Adoption of Environmental Audit Initiatives,” *Contemporary Economic Policy*, Vol. 24, pp.172-187 (2006)
- “The Campus Parking Game: A Demonstration of Price Discrimination and Consumer Welfare,” with Jeffrey Michaels, Arthur Zillante, et al., *Southern Economic Journal*, Vol. 71, pp.668-682 (2005)
- “Progress Toward Title IX Compliance: The Effect of Formal and Informal Enforcement Mechanisms,” *Social Science Quarterly*, Vol 85, Special Issue “Social Science Examines Education,” pp.1469-1486 (2004)
- “Punishment in a Regulatory Setting: Experimental Evidence from the VCM” with Lisa R. Anderson, *Journal of Regulatory Economics*, Vol. 24, pp.91-110 (2003)
- “Network Externalities and Standardization: A Classroom Demonstration” with Christopher S. Ruebeck, Nicola Tynan, et al., *The Southern Economic Journal*, Vol. 69, 1000-1008 (2003)
- “An Experimental Analysis of Rent Seeking Under Varying Competitive Conditions” with Lisa

- R. Anderson, *Public Choice*, Vol. 115, pp. 199-216 (2003)
- “Assessing the Effectiveness of State Regulation and Enforcement of Hazardous Waste,” *Journal of Regulatory Economics*, Vol. 23, pp. 27-41 (2003)
- “The Effect of Punishment on Firm Compliance with Hazardous Waste Regulations,” *Journal of Environmental Economics and Management*, Vol. 44, pp. 290-308 (2002)
- “The Impact of Environmental Regulations on the Location of Firms in the Hazardous Waste Management Industry,” *Land Economics*, Vol. 76, No. 4, pp.569-589 (2000)
- “Choosing Winners and Losers in a Permit Trading Game” with Lisa R. Anderson, *The Southern Economic Journal*, Vol. 67, No, 1, pp. 212-219 (2000)
- “Costs and Benefits of the RCRA Corrective Action Program: A National Perspective,” with Barnes Johnson et al., in *Proceedings of the 2nd International Congress on Hazardous Waste: Impact on Human and Ecological Health* (1996)

#### Publications in Law Reviews

- “Private Policing of Environmental Performance: Does it Further Public Goals?” *Boston College Environmental Affairs Law Review*, Vol. 39(1), pp.73-97 (2012)
- “Outsourcing Enforcement: Principles to Guide Self-Policing Regimes,” *Cardozo Law Review*, Vol. 32(6), pp.2293-2323 (2011)
- “Does Self-Policing Help the Environment? EPA's Audit Policy and Hazardous Waste Compliance,” *Vermont Journal of Environmental Law*, Vol. 6 (2005)

#### Other Publications

- “Coastal Forests and Marshes Help Communities as Flooding Increases” with Molly Mitchell and Pamela Mason, *Virginia Forests*, Vol. 79(3) (2023)
- “Voluntary Self-Policing and the U.S. Audit Policy” in Compliance and Enforcement of Environmental Law ed. by LeRoy Paddock, David Markell and Nicholas S. Byrner. Cheltenham, UK: Edward Elgar (2017)
- “Hazardous Substances,” in Shogren, J.F., (ed.) *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, Vol. 3, pp. 98-102 Amsterdam: Elsevier (2013)
- “Where Things Stand with Hazardous Waste Regulation,” *Weekly Policy Commentary for Resources for the Future*, March 30, 2009, reprinted in Ian Parry and Felicia Day, eds. Issues of the Day: 100 Commentaries on Climate, Energy, the Environment, Transportation, and Public Health Policy, Washington, DC: Resources for the Future (2010)

#### Research Reports from Grant or Contract Work

- “Greater Williamsburg Virginia Area Housing Affordability Analysis,” Prepared for the City of Williamsburg Housing Affordability Task Force, June 2021
- “Housing Needs Assessment for York County,” with Thomas Hall, Prepared for the Williamsburg Association of Realtors and York County, Virginia, May 2020
- “2018 Shoreline Property Owner Survey: A Synopsis of Preliminary Results,” with Amanda Guthrie, September 2019
- “James City County Housing Needs Assessment,” Prepared for the Williamsburg Association of Realtors and James City County, Virginia, October 2019
- “City of Williamsburg Housing Needs Assessment,” Prepared for the Williamsburg Association of Realtors and James City County, Virginia, August 2018

- “James City County Housing Needs Assessment,” Prepared for the Williamsburg Association of Realtors and James City County, Virginia, June 2015
- “Environmental Impacts of Ports Operations,” Prepared for the City of Portsmouth, Virginia, July 2007
- “Greenhouse Gas Emissions from Management of Selected Materials in Municipal Solid Waste,” with William Driscoll and Randall Freed, Prepared for the U.S. Environmental Protection Agency, October 1998

Works in Progress or Submitted

- “Is Replacement Cost a Viable Measure of Property Value for Climate Change-Driven Buyouts?”
- “Valuing Shoreline Habitats for Recreational Fishing” with Andrew Scheld, Donna Bilkovic, Kathleen Powers, Susanna Musick, and Amanda Guthrie
- “Assessing the Economic Impact of Recurrent Flooding on Workforce Productivity and Property: A Case Study of Portsmouth Virginia”
- “Evaluating Property Owner Social Interactions and Their Effect on Shoreline Change” with Amanda Guthrie, Robert Isdell, Christine Tombleson, Carl Hershner and Donna Bilkovic
- “Shoreline Social-Sociological Networks Reveal Mismatches in Policy and Implementation with Ecosystem Structure and Functioning,” with Amanda Guthrie, Donna Bilkovic, Shana Jones, Robert Isdell, Randy Chambers, Matthias Leu, Wei Yusuf, Karinna Nunez and Carl Hershner

Invited Scholarly Papers and Talks (Last 5 Years)

- “Unpacking Property Owners’ Shoreline Modification Decisions: Evidence from Coastal Virginia,” Webinar for Delaware Living Shoreline Committee’s Living Shorelines Webinar Series, May 20, 2020
- “Reducing Disaster Impacts on Employees and Their Families,” Keynote Address at the Employee Relief Fund Education Group Conference, February 7, 2020
- “Understanding Property Owner Shoreline Management Decisions,” Presented at the Center for Coastal Management Resources’ Tidal Wetlands Workshop, May 2, 2019
- “Working With Academics on Program Evaluation,” U.S. EPA Office of Compliance Webinar Series, December 11, 2018
- “Identifying Local Business and Government Vulnerability to Sea-Level Rise in Coastal Virginia,” Presented at the Hampton Roads Adaptation Forum, May 11, 2018

### Papers Presentations (Past 5 Years)

“Unpacking Property Owners’ Shoreline Modification Decisions: Survey Evidence from Coastal Virginia,” Presented at the 6th National Forum on Socioeconomic Research in Coastal Systems on May 21, 2019 and at the Association of Environmental and Resource Economists Summer Conference on June, 6, 2019

“Understanding Shoreline Management Decision Making,” Presented at the Marsh Resilience Summit, February 6, 2019

“Property Owner Responses to Sea Level Rise: What Drives Management Choices in Coastal Virginia?” presented at the World Congress of Environmental and Resource Economists, June 28, 2018

“Identifying Local Business and Government Vulnerability to Sea-Level Rise in Coastal Virginia,” presented at the Social Coast Forum, February 7, 2018

### **PROFESSIONAL SERVICE**

#### Service on Campus

##### Appointed Positions:

University Investment Committee: 2016 to Present

NCAA Faculty Athletic Representative: 2005 to 2010

##### University-wide Committees:

Presidential Call to Service Council: 2021 to Present

Ad Hoc Committee on First Amendment Rights on Campus: 2018 to 2020

Faculty Marshall: 2018 to Present

Athletic Policy Advisory Committee: 2000 to 2003, 2005 to 2010, 2018 to 2021; Chair, 2002 to 2003, 2005 to 2006, 2008 to 2010, 2018 to 2021

Planning Committee for the Inaugural Women’s Weekend: 2017 to 2019

Civic Action Plan Committee: 2017 to 2019

Athletic Director Search Committee: 2016 to 2017

Faculty Compensation Board: 2015 to 2017; 2006 to 2010; Chair, 2007 to 2009

International Advisory Committee: 2016 to 2017

Strategic Planning Steering Committee: 2008 to 2010, 2011 to 2014

Faculty Research Committee: 2012 to 2013

Eco-Village Users Group: Chair, 2011 to 2012

W&M/St. Andrews Joint Degree Program Working Committee: 2008 to 2010

Faculty University Priorities Committee: 2007 to 2009

NCAA Athletics Certification Self-Study Steering Committee 2004 to 2005; Chair of Subcommittee on Equity, Welfare and Sporting Conduct

William and Mary Athletic Task Force: 2004 to 2005

Landscape, Energy and Environment Committee: 1999 to 2002

##### Arts & Sciences Committees:

Interdisciplinary Studies Working Group: 2013 to 2014

Arts and Sciences Dean Search Committee: 2011 to 2012

Faculty Affairs Committee: 2007 to 2008  
Women's Studies Curriculum Committee: 2005 to 2007  
Study Committee for Undergraduate Merit Scholarships: 2002

Other Campus Service:

Phi Beta Kappa, Alpha of Virginia Chapter: Vice President, 2005 to 2010; Nominations and Elections Committee Chair, 2001 to 2003; Nominations and Elections Committee, 2017 to 2021  
Omicron Delta Epsilon (Economics Honor Society), Xi Chapter: Faculty Advisor, 1999 to 2002

Service to the Profession

*Journal of Environmental Economics and Management*: Editorial Council member, 2016 to Present

Eastern Economic Association: Board Member 2015 to 2018

Undergraduate Curriculum Committee, Network of Schools of Public Policy, Affairs and Administration: Chair, 2015 to 2018

Association of Environmental and Resource Economists: Secretary, 2009 to 2013

Department/Program Reviews: Carleton College (Political Economy), Franklin and Marshall (Business, Organizations and Society), Lafayette College (Policy Studies), Claremont-McKenna College (Roberts Environmental Center) W&M Study Abroad (Cape Town, South Africa)

Referee:

National Science Foundation

U.S. Environmental Protection Agency, Science to Achieve Results Program

*Journal of Environmental Economics and Management*

*Journal of Public Economics*

*Journal of Policy Analysis and Management*

*Journal of Law, Economics, and Organization*

*Environmental and Resource Economics*

*Journal of Regulatory Economics*

*International Review of Law and Economics*

*Berkeley Electronic Journal of Economic Analysis and Policy*

*Southern Economic Journal*

*Contemporary Economic Policy*

*Social Science Quarterly*

*International Journal of Industrial Organization*

*Strategic Behavior and the Environment*

*Journal of Environmental Management*

*Environmental Politics*

*Journal of Economic Education*

*Energy Technology*

*Coastal Management*



Service to the Community

Appointed Positions:

Economic Impacts Advisory Committee of the Hampton Roads Intergovernmental Pilot  
Project: 2015-2016

City of Williamsburg Affordable Housing Taskforce: 2020 to 2021

City of Williamsburg Planning Commission: 2010 to 2017

City of Williamsburg Site Plan Review Committee: 2011 to 2017

City of Williamsburg Northeast Triangle Focus Group: Co-Chair, 2011

City of Williamsburg Architectural Review Board: 2010

Other:

Bangladesh Relief Initiative for Communities in Khulna (BRICK) Board: Member 2017 to  
Present