

# PATRICK M. FLEMING

Department of Economics  
Franklin & Marshall College  
Lancaster, PA 17603

202.557.6426 (Cell)  
[pfleming@fandm.edu](mailto:pfleming@fandm.edu)  
<https://www.fandm.edu/patrick-fleming>

## EDUCATION

- Ph.D.** Agricultural and Resource Economics, University of Maryland, College Park, MD, 2016.  
Dissertation: “Agriculture, Environmental Incentive Payments, and Water Quality in the Chesapeake Bay”  
Committee: Erik Lichtenberg (Co-chair), David A. Newburn (Co-chair), Maureen Cropper, James Hanson, Lori Lynch
- M.S.** Agricultural and Resource Economics, University of Maryland, College Park, MD, 2013.
- M.T.S.** Theological Studies, Pontifical John Paul II Institute for Studies on Marriage and Family, Washington DC, 2009.
- B.A.** Economics, Spanish, Washington and Lee University, Lexington, VA, *summa cum laude* 2004.

## PROFESSIONAL EXPERIENCE

### Franklin & Marshall College, Lancaster, PA

- Assistant Professor of Economics and Public Policy, 2016 – present
- Instructor of Economics and Public Policy, 2015 – 2016

### Verdant View Farm, Lancaster, PA

- Farmer, 2009 –2010, 2013 – present

### University of Maryland, College Park

- Research Assistant, David A. Newburn, 2014 – 2015
- Research Assistant, Lori Lynch, 2011 – 2014

### Federal Reserve Board of Governors, Washington DC

- Research Assistant, Research and Statistics Division, 2006 –2007

### The Brattle Group, Washington DC

- Consulting Contractor, Energy Practice Area, 2008, 2009
- Research Analyst, Energy Practice Area, 2004 –2006

## TEACHING AND MENTORING

### Franklin & Marshall College

- Courses taught: Ecological Economics (ECO/PUB 374); Public Policy, Poverty and Human Capability (ECO/PUB 276); Environmental and Natural Resource Economics (ECO/ENV 240); Economic Statistics (ECO 210); Introduction to Economic Principles (ECO 100)
- Directed reading: Ecological Economics (Spring 2016)

- Independent studies: Stormwater Pollution Management (Papa Yaw Owusu, Spring '19); Willingness to Pay for Wetland & Stream Restoration through Legacy Sediment Removal (Jacob Goodkin, Spring '19); Agricultural Conservation among Amish Farmers (Michael Morette, Spring '18); Stormwater Management in Lancaster City (Sally Rodenberger, Spring '18); Environmental Impacts of Campus Dining Decisions (Mabel Li, Spring '17)
- Honors Thesis Committee: Layla Thomas ('17) Felipe Storch de Oliveira ('16)

### **Verdant View Farm**

- Sustainable Agriculture Education, Internship for credit (Kaitlin Muccio, Summer '18)
- Hosted F&M pre-freshmen orientation: Miami STEM Posse (Summer 2015-17); Gardening and Regeneration Orientation Week (GROW) (Summer 2016-18)
- Hosted F&M classes: ECO/PUB 374, ECO/ENV 240, CNX 161 (America Eats)

### **University of Maryland**

- Teaching Assistant, AREC 624: Applied Econometrics II (Ph.D. core requirement)

## **PUBLISHED PAPERS**

### **Peer-Reviewed Journal Articles**

“Evaluating impacts of agricultural cost sharing on water quality: Additionality, crowding in, and slippage”, with Erik Lichtenberg and David A. Newburn, 2018. *Journal of Environmental Economics and Management* 92:1-19.

“Agricultural cost sharing and water quality in the Chesapeake Bay: Estimating indirect effects of environmental payments”, 2017. *American Journal of Agricultural Economics* 99 (5): 1208-1227.

### **Policy Reports**

“Farm conservation in the presence of cost sharing: Behavioral differences in the adoption of impure public goods,” 2012. Prepared for the *National Oceanic and Atmospheric Administration (NOAA)*.

### **Invited Commentaries**

“The economy of a family farm: Growing food in an age of specialization”, *Communio: International Catholic Review*, Vol. 44.3, Summer 2017.

“Economics, ecology, and our common home: The limits of a preference-based approach to human behavior”, *Communio: International Catholic Review*, Vol. 42.4, Winter 2015.

## **WORKING PAPERS**

“Water Quality Trading in the Presence of Existing Cost Share Programs”, with Erik Lichtenberg and David A. Newburn.

“Cost Effectiveness of Legacy Sediment Mitigation at Big Spring Run in Comparison to Other Best Management Practices in the Chesapeake Bay Watershed”, with Water Science Institute.

## **PRESENTATIONS**

### **Invited Presentations**

- "Water Quality Trading in the Presence of Existing Cost Share Programs", Lafayette College, November 2018.
- "Water Quality Trading in the Presence of Existing Cost Share Programs", University of Delaware, Applied Economics Seminar Series, September 2018.
- "Water Quality Trading in the Presence of Existing Cost Share Programs", Pennsylvania State University, Energy and Applied Economics and Policy Seminar, September 2018.
- "Cost Effectiveness of Legacy Sediment Stream Restoration", presented to Pennsylvania Association of Conservation Districts Joint Annual Conference, July 2018.
- "Cost Effectiveness of Legacy Sediment Stream Restoration", presented to PA Department of Environmental Protection staff, June 2018.
- "Cost Effectiveness of Legacy Sediment Stream Restoration", presented to USDA Natural Resources Conservation Service staff, May 2018.
- "Sustainable Farming Immersion in Ecological Economics", presented to Franklin & Marshall Leadership Council/Parent's Council on high-impact teaching practices, October 2017.
- "Evaluating Impacts of Agricultural Cost Sharing on Water Quality: Additionality, Crowding In, and Slippage", Washington and Lee University, Lexington, VA, December 2016.
- "Farming and the Family", presented as part of a panel discussion at the Pontifical John Paul II Institute for Studies on Marriage and Family, February 2016.
- "Agricultural BMPs and Cost Sharing", Agricultural Outlook and Policy Conference, Maryland Department of Agriculture, Annapolis, December 2014.

### **Refereed Conference Presentations**

- "Water Quality Trading in the Presence of Existing Cost Share Programs", Agricultural and Applied Economics Association Annual Meeting, Washington, DC, 2018.
- "Water Quality Trading in the Presence of Existing Cost Share Programs", World Congress of Environmental and Resource Economists, Gothenburg, Sweden, 2018.
- "Water Quality Trading in the Presence of Existing Cost Share Programs", Northeast Agricultural and Resource Economics Association Annual Meeting, Philadelphia, PA, 2018.
- "Targeting Agricultural Cost Share Payments for Nutrient Abatement in the Chesapeake Bay Watershed", Northeast Agricultural and Resource Economics Association Annual Conference, Washington, DC, June 2017.
- "Targeting Agricultural Cost Share Payments for Nutrient Abatement in the Chesapeake Bay Watershed", Association of Environmental and Resource Economists Annual Conference, Pittsburgh, PA, May 2017.

“Agricultural nonpoint source pollution: Incorporating behavioral response in cost sharing policy simulations”, Association of Environmental and Resource Economists Annual Conference, Breckenridge, CO, June 2016.

“Agricultural cost sharing and conservation practices for nutrient reduction in the Chesapeake Bay watershed,” Agricultural and Applied Economics Association Annual Meeting, San Francisco, July 2015.

“Agricultural cost sharing and water quality in the Chesapeake Bay: Estimating substitution effects among conservation practices,” Association of Environmental and Resource Economists Annual Conference, San Diego, June 2015.

“Agricultural cost sharing and water quality in the Chesapeake Bay: Accounting for indirect effects of environmental payments,” Heartland Environmental and Resource Economics Workshop, University of Illinois at Urbana-Champaign, November 2014.

“Agricultural cost sharing and water quality in the Chesapeake Bay: Accounting for indirect effects of environmental payments” Agricultural and Applied Economics Association Annual Meeting, Minneapolis, July 2014.

## **OTHER PROFESSIONAL ACTIVITY**

Journal Reviewer and Referee for:

*American Journal of Agricultural Economics*

*Journal of Environmental Economics and Management*

*Faith and Economics*

Chesapeake Bay Program, Scientific and Technical Advisory Committee (STAC), Steering Committee on Cost-Effective Targeting of Best Management Practices

Professional Affiliations

*Water Science Institute*, Economic and Agricultural Specialist

*Agricultural and Applied Economics Association (AAEA)*, Member

*Association of Environmental and Resource Economists (AERE)*, Member

*Northeastern Agricultural and Resource Economics Assoc. (NAREA)*, Member

Committee Memberships

*Franklin & Marshall Sustainability Advisory Committee*, 2017-18

*Franklin & Marshall Quantitative and Science Center Advisory Board*, 2016-17

## **HONORS AND AWARDS**

**Distinguished Teaching Assistant**, The Center for Teaching Excellence at the University of Maryland, Academic Year 2012-2013

**Dean’s Fellow**, University of Maryland, College Park, 2010 – present

**Graduate Assistantship**, University of Maryland, College Park, 2010 – present

**Susan M. Shaughnessy Award**, Pontifical John Paul II Institute for Studies on Marriage and Family, 2009

**Robert McGivney Full Tuition Scholarship**, Pontifical John Paul II Institute for Studies on Marriage and Family, 2009

**Phi Beta Kappa National Honor Society**

**Robert E. Lee Full Tuition / Room & Board Scholarship**, Washington and Lee University, Lexington VA, 2000-2004

## **SKILLS**

Software: ArcGIS, Mathematica, Matlab, R, SAS, Stata, Visual Basic

Language: English (native), Spanish (proficient), Portuguese (basic)

*Updated February 12, 2019*