

## **JOSHUA J. WAYLAND**

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### **EDUCATION**

- Ph.D. **University of Maryland, College Park**, Geographical Sciences (2018)  
Dissertation: "Natural Resources, Civil Conflict, and the Political Ecology of Scale"  
Committee: Martha Geores (Chair, Geographical Sciences), Matthew Hansen (Geographical Sciences), Laixiang Sun (Geographical Sciences), David Cunningham (Government and Politics), Nathan Hultman (Dean's Representative, Public Policy)
- M.A. **American University**, Global Environmental Policy (2013)
- B.A. **College of William and Mary**, Economics (2008), Environmental Science and Policy (2008)

### **HISTORY OF EMPLOYMENT**

- U.S. Surface Transportation Board** Environmental Protection Specialist, GS-14 (2012- )  
Office of Environmental Analysis
- University of Maryland** Graduate Teaching Assistant/Instructor (2013- )  
Department of Geographical Sciences
- Prince William County, Virginia** Environmental Education Instructor (2012-2014)  
Department of Parks and Recreation
- U.S. Peace Corps** Coastal Resource Management Specialist (2008-2011)  
Republic of the Philippines
- College of William and Mary** Undergraduate Research Assistant (2005-2006)  
Project-Level Aid (now AidData)

### **COURSES TAUGHT**

#### **University of Maryland, College Park:**

- Instructor, Economic Geography (GEOG 332), Winter 2019
- Teaching Assistant, Geography of Environmental Systems Lab (GEOG 211), Fall 2018
- Instructor, Economic Geography (GEOG 332), Summer 2018
- Teaching Assistant, Introduction to Human Geography (GEOG 202), Spring 2018
- Instructor, Economic Geography (GEOG 332), Winter 2018
- Instructor, Economic Geography (GEOG 332), Fall 2017
- Teaching Assistant, Geography of Environmental Systems (GEOG 201), Fall 2017
- Teaching Assistant, Geography of Environmental Systems Lab (GEOG 211), Fall 2017
- Teaching Assistant, Introduction to Human Geography (GEOG 202), Spring 2017
- Teaching Assistant, Economic Geography (GEOG 332), Fall 2016
- Teaching Assistant, Introduction to Quantitative Methods (GEOG 306), Spring 2016
- Teaching Assistant, Introduction to Quantitative Methods (GEOG 306), Fall 2015

- Teaching Assistant, Geography of Environmental Systems (GEOG 201), Spring 2015
- Teaching Assistant, Geography of Environmental Systems Lab (GEOG 211), Spring 2015
- Teaching Assistant, Introduction to Quantitative Methods (GEOG 306), Fall 2014

### PUBLICATIONS

- Wayland, J. Vulnerability, risk, or opportunity? A spatial regression analysis of the relationship between natural resources and civil conflict. In review.
- Wayland, J. 2019. Black Sand and the Red Court: Scalar Politics of a Mining Conflict in the Philippines. *Annals of the American Association of Geographers*. Forthcoming.
- Wayland, J. 2018. *Natural Resources, Civil Conflict, and the Political Ecology of Scale*. Doctoral Dissertation. University of Maryland, College Park, Maryland.
- Wayland, J. 2018. Constraints on foreign aid effectiveness in the water, sanitation, and hygiene (WaSH) sector. *Journal of Water, Sanitation, and Hygiene for Development* 8(1), 44-52.
- Wayland, J. 2017. Constraints on foreign aid effectiveness in the water, sanitation, and hygiene (WASH) sector: evidence from Malawi. *African Geographical Review*, DOI: 10.1080/19376812.2017.1340169
- Wayland, J. & Kuniholm, M. 2016. Legacies of Conflict and Natural Resource Resistance in Guatemala? *The Extractive Industries and Society* 3(2), 395-403.
- Siripurapu, K. K., Wayland, J., Sahoo, H. K., & Geores, M. E. 2016. The Role of Meso-level Facilitating Conditions in the Emergence of Community-based Forest Management in Boudh District of Odisha. *Environment and Ecology Research* 4(2), 50-62.
- Wayland, J. 2014. *A Drop in the Bucket? Foreign Aid Effectiveness in the Water, Sanitation, and Hygiene (WASH) Sector*. Masters Thesis. American University, Washington, D.C.
- Wayland, J. 2008. *Ecology of Scale: Re-evaluating the Role of Small and Medium-Sized Enterprises in a Sustainable Economy*. Senior Honors Thesis. The College of William and Mary, Williamsburg, Virginia.

### PRESENTATIONS

- Wayland, J. 2018. Linking Natural Resources and Civil Conflict: A Spatial Panel Regression Approach. Oral paper presentation at the 2017 American Association of Geographers Annual Meeting, Marriott Hotel, New Orleans, LA, April 10-14.
- Wayland, J. 2017. Linking Natural Resources and Civil Conflict: A Spatial Panel Regression Approach. Oral paper presentation at the 2017 American Association of Geographers—Mid-Atlantic Division Annual Meeting, Dept. of Geographical Sciences, University of Maryland, College Park, MD, November 3-4.
- Wayland, J. 2016. Mapping Natural Resource-Based Conflicts in the Philippines. Oral presentation at the 2016 National Peace Corps Association—Peace Corps Connect Conference, George Washington University, Washington, D.C., September 21-25.
- Wayland, J. 2016. Black Sand and the Red Court: The Anatomy of a Mining Conflict in the Northern Philippines. Oral paper presentation at the 2016 Race, Ethnicity, and Place Conference, Kent State University, September 21-23.
- Wayland, J. 2016. Mining and Insurgency in the Philippines: A Subnational Analysis of Natural Resource Conflict Using Spatial Regression Analysis of Remotely Sensed Data. Oral paper presentation at the 2016 International Studies Association Asia Pacific Conference, City University of Hong Kong, Hong Kong, June 25-27.

- Wayland, J. 2016. Constraints on Foreign Aid Effectiveness in the Water, Sanitation, and Hygiene (WASH) Sector. Oral paper presentation at the 2016 Central East European International Studies Association-International Studies Association Joint International Conference, University of Ljubljana, Slovenia, June 22-25.
- Wayland, J. 2016. Interaction Effects of Natural Resource Dependence, Environmental Degradation, and Economic Inequality on Civil Conflict and Terrorism: A Spatial Econometric Approach. Oral paper presentation at the 2016 Central East European International Studies Association-International Studies Association Joint International Conference, University of Ljubljana, Slovenia, June 22-25.
- Wayland, J. & Assenza, A. 2016. Railroad Abandonments in the Twenty-First Century: Mapping the loss of U.S. Freight Rail Capacity. Oral paper presentation at the 2016 Association of American Geographers Annual Meeting, Hotel Nikko, San Francisco, CA, March 29-April 2.
- Kuniholm, M. & Wayland, J. 2015. Legacies of Conflict and Natural Resource Resistance in Guatemala. Oral paper presentation at the 2015 Association of American Geographers Annual Meeting, Hyatt Regency Hotel, Chicago, IL. April 21-25.
- Wayland, J. 2014. Trickle Down Aid? Evaluating the Local Impact of Water, Sanitation, and Hygiene (WASH) Sector Aid in Malawi. Oral paper presentation at the 2014 International Studies Association Northeast Conference, Tremont Plaza Hotel, Baltimore, MD, November 7-8.
- Wayland, J. 2014. Natural Resource Extraction and Civil Conflict: Opening the Black Box. Oral paper presentation at the 2014 International Studies Association Northeast Conference, Tremont Plaza Hotel, Baltimore, MD, November 7-8.
- Wayland, J. & Caspersen, S. 2014. Using the Fractional Logit Model to Assess the Impact of Transportation-Related Particulate Matter Pollution on the Abundance of Epiphytic Communities: What's Not to Lichen? Oral paper presentation at the 2014 Robyn Rafferty Mathias Student Research Conference, American University, Washington, DC, March 29.
- Wayland, J. 2013. Why WASH Works: A Framework for Evaluating Foreign Aid Effectiveness in the Water, Sanitation, and Hygiene Sector. Oral paper presentation at the 2013 International Studies Association Northeast Conference. Providence Biltmore Hotel, Providence, RI, November 8-10.
- Wayland, J. 2012. A Drop in the Bucket? Examining the Effectiveness of Official Development Assistance in the Water, Sanitation, and Hygiene (WASH) Sector. Oral paper presentation at the 2012 International Studies Association Northeast Conference. Tremont Plaza Hotel, Baltimore, MD. November 2-4.

### **SCHOLARSHIPS, AWARDS, AND DISTINCTIONS**

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| 2014-2018 | University of Maryland Flagship Fellow  |
| 2018      | Outstanding Teaching Assistant Award, Dept. of Geographical Sciences, University of Maryland, College Park  |
| 2018      | Best Graduate Student Paper, American Association of Geographers, Mid-Atlantic Division   |
| 2014      | Best Oral Presentation in the Sciences by a Graduate Student Award Recipient, Robyn Rafferty Mathias Student Research Conference, American University |
| 2008      | William and Mary Campus Sustainability Project Proposal Competition Winner  |
| 2008      | Lauren Burns Environmental Outreach and Service Award Recipient, College of William and Mary  |

2007 Honors Fellow, College of William and Mary  
2007 Roy R. Charles Center Scholarship for Undergraduate Research Recipient, College of William and Mary  
2005 Andrew W. Mellon Foundation Grant Recipient

### **OTHER INFORMATION**

**Technical skills:** Statistical analysis (Stata, R, Excel), Geographical Information Systems (ArcGIS, GoogleEarth), remote sensing (ENVI, PCI Geomatica), environmental design (LEED trained), ecological field methods (species identification, monitoring, sampling techniques), social scientific field methods (survey design, community-based assessment, interviewing)

**Languages spoken:** English (native), Tagalog/Filipino (advanced), Iluko/Ilocano (advanced), French (intermediate)