

**GWEN ARNOLD**  
(November 2018)

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**CONTACT INFORMATION**

Department of Environmental Science and Policy  
University of California, Davis  
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**ACADEMIC APPOINTMENTS**

**University of California, Davis, CA**  
Department of Environmental Science and Policy  
Assistant Professor, July 2013–present

**University of Cincinnati, Cincinnati, OH**  
Department of Political Science  
Assistant Professor, August 2012–June 2013

**Indiana University, Bloomington, IN**  
Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis  
Affiliated Faculty, November 2012–present

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**EDUCATION**

**Indiana University, Bloomington, IN**  
Ph.D. Public Policy, August 2012  
Concentrations: Environmental Policy and Political Theory and Methodology

**University of Michigan, Ann Arbor, MI**  
B.A. Political Science (Minor: Global Change), May 2003

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**PEER-REVIEWED PUBLICATIONS**

*In Review*

Ruseva, Tatyana, Megan Foster, **Gwen Arnold**, Saba Siddiki, Abigail York, Riley Pudney, and Ziquiao Chen. 2019. Applying policy process theories to environmental governance research: Themes and new directions. *Policy Studies Journal* (in revision November 2018).

Le Anh Nguyen Long, **Gwen Arnold**, and Rudy Huezo. 2019. Depicting governance: Comparing methods for eliciting networks from secondary sources. *Policy Studies Journal* (in revision October 2018).

*Published or Forthcoming*

Gottlieb, Madeline, Ernst Oettinger, and **Gwen Arnold**. 2019. “No fracking way” vs. “Drill baby drill”: A restructuring of who is pitted against whom in the Narrative Policy Framework. *Policy Studies Journal* (forthcoming).

**Arnold, Gwen**, and Le Anh Nguyen Long. 2018. Policy expansion in local government environmental policymaking. *Public Administration Review* (forthcoming).

**Arnold, Gwen**, and Luke Shimek. 2018. Nodes and links as actors and actions in public administration networks. In *The Handbook of American Public Administration*, eds. Edmund C. Stazyk and H. George Frederickson. Northampton, MA: Edward Elgar Publishing.

**Arnold, Gwen**, Benjamin Farrer, and Robert Holahan. 2018. How do landowners learn about high-volume hydraulic fracturing? A survey of Eastern Ohio landowners in active or proposed drilling units. *Energy Policy* 114: 455–464.

**Arnold, Gwen**, Benjamin Farrer, and Robert Holahan. 2018. Measuring environmental and economic opinions about hydraulic fracturing: A survey of landowners in active or planned drilling units. *Review of Policy Research* 35 no. 2: 258–279.

**Arnold, Gwen**, Le Anh Nguyen Long, and Madeline Gottlieb. 2017. Social networks and policy entrepreneurship: How relationships shape municipal decision-making about high-volume hydraulic fracturing. *Policy Studies Journal* 45 no. 3: 414–441.

**Arnold, Gwen**, and Kaubin Wosti Neupane. 2017. Determinants of pro-fracking measure adoption by New York Southern Tier municipalities. *Review of Policy Research* 34 no. 2: 208–232.

Cox, Michael, Sergio Villamayor Tomás, and **Gwen Arnold**. 2016. Design principles in commons science: A response to “Ostrom, Hardin and the commons” (Araral). *Environmental Science and Policy* 61: 238–242.

**Arnold, Gwen**. 2015. When cooperative federalism isn't: How U.S. federal interagency contradictions impede effective wetland management. *Publius* 45 no. 2: 244–269.

**Arnold, Gwen**. 2015. Street-level policy entrepreneurship. *Public Management Review* 17 no. 2: 307–327.

**Arnold, Gwen**. 2014. Policy learning and science policy innovation implementation by street-level bureaucrats. *Journal of Public Policy* 34 no. 2: 389–414.

**Arnold, Gwen**, and Robert Holahan. 2014. The federalism of fracking: How the locus of policymaking authority affects civic engagement. *Publius* 44 (2): 344–368.

Holahan, Robert, and **Gwen Arnold**. 2013. An institutional theory of hydraulic fracturing policy. *Ecological Economics* 94: 127–134.

**Arnold, Gwen**, and Forrest Fleischman. 2013. The influence of organizations and institutions on wetland policy stability: The *Rapanos* case. *Policy Studies Journal* 41 no. 2: 343–364.

**Arnold, Gwen**. 2013. Use of monetary wetland value estimates by EPA Clean Water Act Section 404 regulators. *Wetlands Ecology and Management* 21 no. 2: 117–129.

**Arnold, Gwen**. 2012. Enhancing college students' environmental sensibilities through online journaling. *Environmental Education Research* 18 no. 3: 133–150.

Cox, Michael, **Gwen Arnold**, and Sergio Villamayor Tomás. 2010. A review and reassessment of design principles for community-based natural resource management. *Ecology and Society* 15 no. 4: 38.

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#### **OTHER PUBLICATIONS** (after 2012)

**Arnold, Gwen**, Andrew Leach, and Leila Tabrizi. Content analysis of auto ads in the United States, 2005, 2012, 2015, and 2017. Prepared for Consumers Union (advocacy division of Consumer Reports), June 2018.

Mudliar, Pranietha, and **Gwen Arnold**. 2016. Review of “Fighting King Coal: The Barriers to Grassroots Environmental Justice Movement Participation in Central Appalachia,” by Shannon Elizabeth Bell. *Review of Policy Research* 34 no. 5: 727–729.

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#### **FUNDING** (after 2012)

##### *External*

National Science Foundation Science of Science and Innovation Policy, “Understanding drivers of innovation in the use of science in federal NEPA decisionmaking,” with Tyler Scott, UCD, and Forrest Fleishman, UMN; 2018–2021; \$531,243 total; \$157,013 UCD portion

National Science Foundation Decision, Risk, and Management Sciences, “Escaping the boom-bust cycle: Identifying sustainable governance strategies for shale-dependent communities,” with Abigail York, ASU; 2017–2020; \$560,258 total; \$208,677 UCD portion

National Science Foundation Decision, Risk, and Management Sciences, “Analyzing the role of social networks in local government decision-making about high-volume hydraulic fracturing,” 2015–2017; \$525,000 (all UCD)

California Institute of Water Resources, 2015–2018; \$25,000

##### *Internal*

Hellman Fellowship, 2014–2015; \$40,135

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#### **AWARDS**

2018 Paul A. Sabatier Best Conference Paper Award for “Understanding local fracking regulatory stringency” (awarded for the best paper on science, technology, and politics presented at the 2017 meeting of the American Political Science Association)

2018 UC Davis Chancellor’s Award for Excellence in Undergraduate Research Mentoring

2017 Outstanding Reviewer, *Policy Studies Journal*

2016 John Kincaid *Publius* Best Article Award for “When cooperative federalism isn’t: How U.S. federal interagency conflicts impede effective wetland management”

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#### **CONFERENCE PRESENTATIONS** (after 2012)

**Arnold, Gwen,** Le Anh Nguyen, Madeline Gottlieb, Michael Bybee, and Nikita Sinha. 2017. Understanding local fracking regulatory stringency. Presented at the Association for Public Policy Analysis and Management Annual Meeting (APPAM), Chicago, IL, Nov. 2–4 and at the American Political Science Association Annual Meeting (APSA), San Francisco, CA, Aug. 31–Sept. 3.

Le Anh Nguyen, Rudy Huezo, and **Gwen Arnold.** 2017. Public records versus newspaper reporting as sources for local-level environmental policy networks: An automated process for comparing secondary sources. Presented at the Annual Meeting of the Political Networks Section of the American Political Science Association, Columbus, OH, June 14–17.

**Arnold, Gwen,** Le Anh Nguyen, Madeline Gottlieb, Michael Bybee, and Nikita Sinha. 2017. The role of policy attributes in policy adoption and diffusion: Learning from anti-fracking municipal policy adoption in New York. Presented at the Midwest Political Science Association (MPSA) Annual Meeting, Chicago, IL, April 6–9.

**Arnold, Gwen,** Benjamin Farrer, and Robert Holahan. 2017. How do landowners learn about high-volume hydraulic fracturing? A survey of Ohio landowners. Presented at the Midwest Political Science Association (MPSA) Annual Meeting, Chicago, IL, April 6–9.

**Arnold, Gwen,** Le Anh Nguyen, Madeline Gottlieb, Michael Bybee, and Nikita Sinha. 2016. Policy expansion in local government environmental policymaking: The case of high-volume hydraulic fracturing policy in New York. Presented at the Association for Public Policy Analysis and Management (APPAM) Annual Meeting, Washington, DC, Nov. 3–5.

**Arnold, Gwen.** 2016. Determinants of policy entrepreneur success in New York's local fracking policy struggles. Presented at the American Political Science Association (APSA) Annual Meeting, Philadelphia, PA, Sept. 1–4.

**Arnold, Gwen,** and Le Anh Nguyen. 2015. Analyzing the role of social networks in municipal decision-making about high-volume hydraulic fracturing. Presented at the American Political Science Association Annual Meeting (APSA), San Francisco, CA, Sept. 3–6.

**Arnold, Gwen,** and Le Anh Nguyen. 2015. Analyzing the role of social networks in municipal decision-making about high-volume hydraulic fracturing. Presented at the Environmental Policy and Governance Conference, Bainbridge Island, Washington, May 14–16.

**Arnold, Gwen.** 2014. Bureaucrats can be policy entrepreneurs too: What state wetland regulators can teach us about street-level policy entrepreneurship. Presented at the American Political Science Association Annual Meeting (APSA), Washington, DC, Aug. 27–31.

**Arnold, Gwen,** Kaubin Neupane, and Sarah Worrell. 2014. Understanding local civic response to the introduction of shale gas drilling: An analysis of Marcellus Shale communities. Presented at the Implications for Hydraulic Fracturing for Creating Sustainable Communities SUNY CID, Binghamton, NY, April 10–11.

Holahan, Robert, and **Gwen Arnold.** 2014. Resource characteristics and policy fit: Comparing conventional and unconventional oil and gas reservoirs. Presented at the Midwest Political Science Association (MPSA) 72<sup>nd</sup> Annual Conference, Chicago, IL, April 3–6.

Nguyen, Le Anh, and **Gwen Arnold**. 2013. Preliminary evaluation of the impact of policy network structure on policy entrepreneurship. Presented at the 6<sup>th</sup> Annual Meeting of the Political Networks Section of the American Political Science Association (Polnet), Bloomington, IN, June 26–29.

Holahan, Robert, and **Gwen Arnold**. 2013. Institutional design and policy formation: Comparing cross-state variable in hydraulic fracturing regulation. Presented at the Midwest Political Science Association (MPSA) 71<sup>st</sup> Annual Conference, Chicago, IL, April 11–14.

**Arnold, Gwen**. 2013. Upending environmental federalism: The case of Ohio wetland regulation. Presented at the Midwest Political Science Association (MPSA) 71<sup>st</sup> Annual Conference, Chicago, IL, April 11–14.

**Arnold, Gwen**. 2013. Understanding the professional accountability norms of U.S. wetland managers. Presented at the American Society for Public Administration Annual Conference (ASPA), New Orleans, LA, March 15–19.

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## TEACHING AND ADVISING (after 2012)

### *Courses*

#### **University of California, Davis**

Environmental Analysis (ESP1), Fall 2014–2018

Theories of the Policy Process (ESP160 and/or ESP/ECL212), Spring 2014–2018

#### **University of Cincinnati**

Environmental Policy (POL/EVST2031), Spring 2013

Sustainable Development (POL/EVST3031), Spring 2013

Public Policy Research and Evaluation (POL7001), Fall 2012

### *Advising of PhD students*

#### **University of California, Davis**

Maria Brun (2013–2017), Graduate Group in Ecology (GGE)

Madeline Gottlieb (2014–present), GGE

Megan Foster (2016–present), Graduate Group in Geography (GGG)

Mackenzie Johnson (2017–present), GGG

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## PROFESSIONAL COMMITMENTS

### **Current association memberships**

American Political Science Association (APSA), Association for Public Policy Analysis and Management (APPAM), International Association for the Study of the Commons (IASC)

### **Referee service**

*American Journal of Political Science, American Political Science Review, Conservation Letters, Ecology and Society, Economics of Energy and Environmental Policy, Energy Research and Social Sciences, Environmental Education Research, Environmental Policy and Governance, Environmental Practice, Governance, Governance in Africa, International Journal of the Commons, Journal of Economic Behavior and Organization, Journal of Institutional Economics, Ohio Journal of Science, Perspectives on Politics, Public Administration, Public Administration Review,*

*Public Management Review, Policy Studies Journal, Review of Policy Research, Social Forces, Social Science Research, Society and Natural Resources, Urban Affairs Review, Wetlands Ecology and Management*

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## **SERVICE: ORGANIZATIONAL AND DISCIPLINARY COMMITMENTS**

### **Disciplinary**

#### *Section Chair*

Western Political Science Association Environmental Politics Section, 2018 and 2019

#### *Committee member*

Herbert Kaufman Paper Award, APSA Public Administration Section, 2018; Best Book Award, APSA Political Networks Section, 2013 and 2015; Best Paper Presented as a Poster Award, MPSA Annual Conference, 2014

#### *Panel chair, organizer, and/or discussant*

MPSA Annual Conference, 2017, 2014, 2013; APSA Annual Conference, 2014; Polnet Conference, 2013; 5<sup>th</sup> Workshop on the Workshop, 2014; ASPA Annual Conference, 2013; ISSRM, 2011

### **Other (Proposal Reviewer)**

National Science Foundation, 2018, 2017, 2016, 2014, and 2013

Ralph E. Powe Junior Faculty Enhancement Award Program, 2015 and 2014

Student Spaceflight Experiment Program (National Center for Earth and Space Science Education), November 2011 and May 2013

### **University of California, Davis**

#### *Departmental or university committee service*

Associate Director of Research, Wild Energy Initiative, John Muir Institute, 2018

Executive Committee, Environmental Policy and Management Master's Program, 2014–present

Co-director, Center for Environmental Policy and Behavior, 2013–present

Department of Environmental Science and Policy Socioecological Systems Faculty Search, 2016

Department of Environmental Science and Policy Climate Policy Faculty Search, 2015

Department of Political Science Methods Faculty Search, 2014

Institute for Transportation Technology Outstanding PhD Dissertation Award Committee, 2014

#### *Master's thesis committees*

Autumn Bernstein (TTP), Kate Tiedeman (TTP)

#### *PhD qualifying exam and/or dissertation committees*

Maria Brun (GGE), Aaron Fackler (TTP), Amanda Fencl (GGG), Megan Foster (GGG), Madeline Gottlieb (GGE), Matt Hamilton (GGE), Michael Levy (GGE), Amanda Lindsay (ARE), Ernst Oettinger (GGE), Matt Palm (GGG), Matt Robbins (GGE), Jess Rudnick (GGE), Ben White (TTP)

#### *Other service*

Faculty Advisor, University Honors Program, 2014–present

Net Impact Faculty Advisor, 2015–2017

### **University of Cincinnati**

Advisor, Department of Political Science International Affairs BA, 2012–2013

Member, Department of Political Science Graduate Program Committee, 2012–2013

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**INVITED TALKS** (after 2012)

**Arnold, Gwen.** 2017. Understanding local fracking regulation: Lessons from New York municipalities about policy advocacy and policy change. Presented at the Department of Geological Environmental Sciences Seminar, Chico State University, Chico, CA, Sept. 19 and at the National Socio-Environmental Synthesis Center, Annapolis, MD, Sept. 2.

**Arnold, Gwen.** 2016. Understanding efficacy of local fracking policy advocates: New York's experience. Presented at Natural Resources Defense Council, San Francisco, CA, March 28.

**Arnold, Gwen.** 2016. UN Sustainable Development Goals and high-volume hydraulic fracturing. Presentation at the Human Rights Impacts of Climate Change Symposium and UC Hastings College of Law, San Francisco, CA, Feb. 16.

**Arnold, Gwen.** 2015. High-volume hydraulic fracturing and community responses. Presentation at the University of California, Davis Law School as part of the 2015 Environmental Law Society Culture Week, Davis, CA, March 11.

**Arnold, Gwen.** 2015. Understand municipal-level policy entrepreneurship concerning high-volume hydraulic fracturing. Presented at the Florida State University Department of Political Science Spring Seminar Series, Tallahassee, FL, March 6.

**Arnold, Gwen.** 2015. Understanding local leadership in municipal hydraulic fracturing policy. University of South Dakota Sustainability Series, Vermillion, South Dakota, Feb. 19.

**Arnold, Gwen.** 2014. Climate policy primer. Presentation to Bay School high school students at University of California, Davis, May 29, 2014.

**Arnold, Gwen.** 2014. Assessing the U.S. hydraulic fracturing boom: Overview, challenges and opportunities, and the transportation research agenda. University of California Davis Institute for Transportation Studies, Davis, May 2.

**Arnold, Gwen.** 2014. Rethinking shale resources as common-pool resources: Rationale and implications. Presented at the Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis, Bloomington, IN, Feb. 24.

**Arnold, Gwen.** 2013. Building theory for analyzing hydraulic fracturing policy. Ohio State University School of Environment and Natural Resources Spring 2013 Seminar Series, Columbus, OH, January 14.