

Fushcia-Ann Hoover, PhD.

1 Park Place, Suite 300 | Annapolis, MD 21401
fhoover@sesync.org | fushciahoover.com

Appointments

- 10/2019- • Postdoctoral Affiliate, Julie Ann Wrigley Global Institute of Sustainability, NSF Central Arizona-Phoenix Long-term Ecological Research (CAP-LTER), ASU, Tempe, AZ
- 9/2019- • Postdoctoral Fellow, National Socio-Environmental Synthesis Center (SESYNC), University of Maryland-College Park, Annapolis, MD
- 1/18-8/19 • Postdoctoral Research Associate, The National Academies' National Research Council, The Environmental Protection Agency, Cincinnati, OH

Interests

Urban Hydrology	Environmental Justice	Ecosystem Services
Stormwater Management	Black Geography	Environmental Ethnography
Green Infrastructure	Social-Ecological Systems	Qualitative Methods

Education

- 2017 **PhD Purdue University** | Agricultural & Biological Engineering
Ecological Sciences & Engineering Interdisciplinary Program
Dissertation: Exploring the Potential Barriers to Implementing Stormwater Control Measures
Advisor: Dr. Laura Bowling
Committee: Drs. Linda Prokopy, Laura Zanotti and Sara McMillan
- 2013 **MSE Purdue University** | Agricultural & Biological Engineering
Thesis: An Integrative Analysis of an Extensive Green Roof System: A Case Study of the Schleman Green Roof
Advisor: Dr. Laura Bowling
- 2009 **BSME University of St. Thomas, MN** | Mechanical Engineering

Publications

Referred Journal Articles

- 2019 **Hoover, FA.,** Hopton, M. 2019. *Leveraging ancillary benefits with stormwater management from urban greenspace.* Urban Ecosystems. Vol. 22 (6), p. 1139-1148.
<https://doi.org/10.1007/s11252-019-00890-6>
- 2009 **Hoover, F-A.,** J. Abraham. (2009). *A Comparison of Corn-Based Ethanol with Cellulosic Ethanol as Replacements for Petroleum-Based Fuels: A Review,* International J. Sustainable Energy, Vol. 28 (4), pp. 171-182

Media and Public Press

- 2019 Hopton, M.E., **F.A. Hoover,** X. Fu. 2019. *Leveraging ecosystem services in stormwater management: Research to assist communities with greenspace placement to maximize benefits.* U.S. Environmental Protection Agency, Cincinnati, Ohio. EPA Number: EPA/600/F-19/106, 2 pp.

Conference Proceedings

- 2013 **Hoover, F.**, Bowling, L. (2013). *Water Quality Evaluation for an Extensive Green Roof System*. Int. Perspectives Water Resources & Environmental Proceedings, Izmir, Turkey.
- 2009 **F. Hoover** and J. Abraham. *Assessment of the Carbon Dioxide and Energy Balances of Biofuels*, Climate Change Technology Conference 2009, Hamilton, Ontario, May 12-15, 2009.
- Hoover, F.** and J. Abraham. (2009). *A Review: Comprehensive comparison of corn-based and cellulosic-based ethanol as biofuel sources*, Clean Technology Conference and Expo 2009, Houston, TX.
- In Review*
- 2019 **Hoover, F-A.**, Price, J., Hopton, M. *Examining the Effects of Green Infrastructure on Residential Sales Prices in Omaha, NE*. (Available upon request)
- Rahman, S., **Hoover, F-A.**, Peel, S., Bowling, L. *Can there ever be enough to impact water quality? Evaluating BMPs in Elliot Ditch, Indiana using the LTHIA-LID model*.
- In Preparation*
- 2019 **Hoover, F.**, Hopton, M. *Applying the Ecosystem Services Framework, A Case Study of St. Louis, MO*.
- Hoover, F-A.**, Zanotti, L., Prokopy, L., Gao, Y., McMillan, S., Bowling, L. *Evaluating the Distribution of Stormwater Control Measures through an Environmental Justice Lens*. (Available upon request)
- Hoover, F.**, Bowling, L., Turco, R., Peel, S. *Monitoring program design to detect water quality change at the watershed scale*. (Available upon request)

Grants and Fellowships *competitive

- 2019 National Socio-Environmental Synthesis Center Postdoctoral Fellowship* (\$162,500)
- 2017 National Academies' Postdoctoral Fellowship Program* (\$181,350)
- 2017 Women's Congressional Fellowship Program* (Declined)
- 2011 National Science Foundation Graduate Research Fellowship Program* (\$124,800)

Honors

- 2017 The Graduate School's Most Outstanding Interdisciplinary Project Award (\$1,000)*
- 2016 Purdue University's Bililand Dissertation Fellowship (1 per department/program)
- 2014 Global Policy Research Institute Policy Scholar*
- 2013 Fredrick N. Andrews Environmental Travel Grant (\$1,500)*
- 2012 Ross Graduate Research Fellowship
- 2012 Indiana Association of Environmental Professionals Graduate Student Award (\$1,000)*
- 2011 Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science Initiative Program (MSPHD'S)*
- 2011 Alliance for Graduate Education in the Professoriate (AGEP) Research Fellowship
- 2010 US State Department Critical Language Scholarship-Arabic*

Organized Conferences or Symposiums

- 2015 Keystone Lecture Series | Purdue University | **Chair**
- 2013 Keystone Lecture Series | Purdue University | **Communications Chair**
- 2012 Keystone Lecture Series | Purdue University | **Fundraising Chair**
Ecological Sciences and Engineering Program's Annual Symposium | **Fundraising Chair**

Invited Lectures and Talks

- 2019
- *Green and Just: Integrating Equity and Resilience into Green Infrastructure Planning.* Johnnie L. Cochran, Jr. Middle School, Los Angeles Public Schools. **Guest Lecturer**
 - *Self and Place,* Western Program, Miami University, OH. **Guest Lecturer**
 - *Examining Property Values and Green Infrastructure in Omaha, NE.* Environmental Protection Agency-Cincinnati, OH. **Invited Talk**
 - *Optimizing the Research Intern Experience to Build Inclusion and Diversity in the Geosciences Workforce* Workshop. Woods Hole, Mass. **Invited keynote** (Declined)
- 2018
- *Barriers to Implementing Stormwater control measures in communities of color.* University of Cincinnati, OH. **Guest Lecturer**
- 2017
- *Detecting Change in a Watershed.* Environmental Protection Agency-Cincinnati, OH. **Invited talk**
 - *Re-imagining Communities.* University of Chicago Design Apprenticeship Program. **Guest Lecturer**
 - *Mapping the Distribution of Stormwater Control Practices in the City of Chicago.* Purdue University. **Keynote**

Selected Presentations

- 2019 **Hoover, F.,** Price, J., Hopton, M. *Green infrastructure and residential property values in Omaha, NE.* Ecological Society of America Meeting, Louisville, KY. COS 47-03, #77133.
- 2018 **Hoover, F.** and Hopton, M. *Leveraging ancillary benefits with stormwater management from urban greenspace.* American Geophysical Union Fall Meeting, Washington, DC. 10-14 Dec.
- Hoover, F-A.,** Zanotti, L., Prokopy, L., Gao, Y., McMillan, S., Bowling, L. *Understanding communication barriers in stormwater management planning; how scientists can be the bridge to connect stakeholders.* American Geophysical Union Fall Meeting, Washington, DC. 10-14 Dec.
- 2016 **Hoover, F.** and Bowling, L., *Paired versus Single Site Catchment Analysis for Elliot Ditch and Little Wea Creek in Lafayette, IN.* Indiana Water Resources Association, Angola Park, IN.
- Bowling, L., Turco, R., **Hoover, F.,** Peel S. *Monitoring to show effectiveness of watershed management; example from the region of the great bend of the Wabash watershed.* Indiana Department of Environmental Management, Indianapolis, IN.

- 2015 **Hoover, F-A**, L. Bowling, and L. Prokopy. *Combining the Power of Statistical Analyses and Community Interviews to Identify Adoption Barriers for Stormwater Best-Management Practices*. American Geophysical Union Fall Meeting, San Francisco, CA. 14-18 Dec. H24F-04.
- 2014 **F. Hoover** and L. Bowling. *The Schleman Hall Green Roof; A Comprehensive Analysis of Purdue University's Extensive Green Roof*. Emerging Researchers National (ERN) Conference in STEM, Washington, DC.
- 2013 **Hoover, F-A**, and L. C. Bowling (2013). An Integrative Analysis of an Extensive Green Roof System: A Case Study of the Schleman Green Roof. American Geophysical Union (AGU) Fall Meeting, San Francisco, CA. 9-13 Dec. H21J-1195.
- F. Hoover**, L. Bowling (2013), Water Quality Evaluation for an Extensive Green Roof System, Int'l Perspectives on Water Res. in the Envirn, Izmir, Turkey, Jan7-9th 2013.

Professional Employment

- 05/14-08/14 Public Affairs Policy Intern | **American Geophysical Union** | Washington DC
- Managed the social media and communication accounts including the science policy blog
 - Developed US state and territory climate change fact sheets for members' congressional visits
 - Co-presented the annual Communicating Science to Legislators webinar
- 01/10-06/11 Advancement Via Individual Determination Tutor | **Saint Paul Public Schools** | St. Paul, MN
- Provided instruction and guidance to student groups of 4-6 per class period in all subjects as needed
 - Tracked each student's individual weekly progress and academic development
 - Mentored junior and senior level students in college planning and development
- 05/09-08/09 Best Buy/Geek Squad/Women's High-Tech Coalition Congressional Intern | **US House of Representatives Committee on House Administration** | Washington DC
- Co-facilitated capitol hill summer intern lecture series and managed the social media outputs for each lecture
 - Produced legislative summaries for committee hearings

Patents

- 2015 Slaker, B., Gettys, A., Seward, J., Maida, J., Jaffer, A., Valley, B., **Hoover, F.** 2015. Respiratory Treatment Delivery System. U.S. Patent 8,397,725, filed September 3, 2010, and issued March 19, 2013.

Professional Development

Community Engagement and Service Learning

- 2019 Non-traditional Postdocs | Ecological Society of America Conference Student Section | **Invited panelist**
- Gap Year | Ecological Society of America Conference Student Section | **Invited panelist**

Santa Clara University, Skype a Scientist | **Guest Presenter**

2018 University of Cincinnati National Society of Black Engineers | **Invited panelist**
 Alphabet Film Festival | Cincinnati Black Pride | **Invited facilitator**
 Skype a Scientist | **Member**

2017 Design Apprenticeship Program | University of Chicago | **Invited speaker**

2016 Science Communication Workshop, Purdue Interdisciplinary Ecological Sciences and Engineering | **Invited speaker**

2013 Purdue LSAMP Fall Semester Research Course | **Invited panelist**
 Indiana LSAMP Conference | **Invited panelist**

2012 Regional MANNERS Conference | Recruiter

Mentoring

2014 Ecological Science & Engineering Peer Mentoring Program

2013-2016 Purdue Louis Stokes Alliance for Minority Participation (LSAMP) Mentoring Program

Additional Leadership

2014 Purdue Graduate Student Government | **Treasurer**

2013 Agricultural & Biological Engr. Graduate Student Association | Recruitment **Co-chair**

2012 Purdue Graduate Student Government | **Treasurer**
 Purdue Women in Engineering Program's Innovation to Reality After School Engineering Program | Graduate Student **Coordinator**

2011 Purdue University Martin Luther King Jr. Planning Committee | Graduate Student **Representative**

Affiliations and Certifications

- Safe Zone Ally Training | University of Cincinnati, OH | 2018
- American Geophysical Union
- American Association of Geographers
- Ecological Society of America
- Alliance for Graduate Education in the Professoriate (AGEP) Scholar
- Ronald E. McNair Post-Baccalaureate Achievement Program Scholar

References

Laura C. Bowling, Professor of Department of Agronomy, Purdue University, IN
bowling@purdue.edu | 765.494.8051

Matthew Hopton, Branch Chief, Senior Ecologist, US Environmental Protection Agency, OH
Hopton.matthew@epa.gov | 513-569-7718

Linda S. Prokopy, Professor of Forestry and Natural Resources, Purdue University, IN
lprokopy@purdue.edu | 765-496-2221

Sara K. McMillan, Associate Professor of Agricultural & Biological Engineering, Purdue University, IN
mcmill@purdue.edu | 765-496-0211

Sara Meerow, Assistant Professor of School of Geographical Sciences and Urban Planning, Arizona State University, AZ, sara.meerow@asu.edu | 480-965-6501

Laura C. Zanotti, Associate Professor of Anthropology, Purdue University, IN
lzanotti@purdue.edu | 765-496-7226