

Lauren E. McPhillips

Assistant Professor

Civil & Environmental Engineering
Agricultural & Biological Engineering
The Pennsylvania State University
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EDUCATION

Ph.D., 2016, Biological and Environmental Engineering, Cornell University, Ithaca NY

Major Advisor: M. Todd Walter

Thesis: Nutrient cycling hotspots in suburban watersheds: stormwater detention basins, grassed road ditches and lawns

M.S., 2013, Biological and Environmental Engineering, Cornell University, Ithaca NY

B.S., 2007, *cum laude with distinction in research* - Science of Earth Systems, Cornell University, Ithaca NY

RESEARCH POSITIONS

Assistant Professor, Civil and Environmental Engineering
Agricultural and Biological Engineering
The Pennsylvania State University, State College, PA
Aug 2018- present

Postdoctoral Research Fellow, Global Institute of Sustainability
Urban Resilience to Extremes Sustainability Research Network
Arizona State University, Tempe, AZ
Aug 2016- Jun 2018

Graduate Student Researcher, Dept. of Biological & Environmental Engineering
Cornell University, Ithaca NY
Aug 2010- Jul 2016

Research Associate, National Research Program, Water Resources Division
US Geological Survey, Reston VA
Jul 2007- Jul 2010

TEACHING

Instructor

CEE 360: Fluid Mechanics
Fall 2018

SOS 591: Urban Resilience Seminar (distributed across multiple institutions)
Spring, Fall 2017

Teaching Assistant

BEE 3710: Physical Hydrology for Ecosystems
Spring 2011

CSS 2600: Soil Science
Fall 2004

Guest Instructor

BIO 189: Freshman Life Sciences Mentor Seminar
Fall 2016

BEE 3710: Physical Hydrology for Ecosystems
Spring 2013, 2015

BEE 4270: Water Measurement and Analysis Methods
Fall 2013

BEE 4710: Introduction to Groundwater
Spring 2013

BEE 4730: Watershed Engineering
Fall 2011-2013

EAS 4990: Water Resources Infrastructure Seminar
Spring 2014

HORT 2240: Urban Ecosystems
Spring 2014

LA 4010: Urban Design Studio (Focus: Urban Resilience & Ecosystem Services)
Fall 2014

SNES 1101: Intro. to Science and Management of Environmental and Natural Resources
Fall 2010

Course Organizer

Science Video Workshop for Graduate Students
Fall 2013

Pedagogical Development

Cornell Center for Teaching Excellence Workshops
Spring 2015

Certificates in 'Innovative Approaches in Pedagogy' and 'Enhancing Teaching with Technology'
Teaching in Higher Education (semester-long course)
Fall 2012

HONORS & FELLOWSHIPS

2015	Earth Stewardship Initiative Ecology and Design Fellow
2015	Runner-up, Cornell Atkinson Center for a Sustainable Future Graduate Student Video Contest
2014	Cornell University Atkinson Center for a Sustainable Future Student Research Fellow
2013	NSF IGERT Video & Poster Competition 'Judge's Choice' Award
2013	New York Water Environment Association N.G. Kaul Memorial Award
2012	Cornell/ NSF IGERT (Integrative Graduate Education and Research Traineeship) in 'Cross-Scale Biogeochemistry and Climate'
2011	National Science Foundation (NSF) Graduate Research Fellowship
2010	Alpha Epsilon inductee- honor society for agricultural, biological, and environmental engineers
2009	USGS Star Research Associate Award- recognizes outstanding work in the past year

GRANTS

2017	URExSRN Research Experience for Undergraduates (REU) Grant for Student Fellow (\$4000)
2014	Cornell Graduate School Conference Grant (\$440)
2014	NY State Water Resources Institute Research Grant (\$9734)
2013	Cornell Cross-Scale Biogeochemistry and Climate IGERT Small Grant (\$3557)
2012	Cornell Cross-Scale Biogeochemistry and Climate IGERT Small Grant (\$4000) (co-PI with PhD student Elliot Friedman)
2012	Cornell Sustainable Biodiversity Small Grant (\$5300) (co-PI with PhD student Elliot Friedman)
2011	Cornell Biogeochemistry and Environmental Biocomplexity Small Grant (\$4000)

PEER-REVIEWED PUBLICATIONS (*indicates undergraduate co-author)

In preparation or review

^DKelleher, C. and L.E. McPhillips. In Prep. The role of topography in urban flooding: leveraging community-based reporting to understand spatial occurrence of pluvial events.

^C**McPhillips, L.E.**, N.B. Grimm, R. Hale, S. Earl. In Prep. Urbanization in the desert doesn't conform to urban stream syndrome expectations. In prep for *Water Resources Research*.

^BPalta, M.M., **L.E. McPhillips**, C. Bienz, C. Clifford, M. Harrison Okoro, K. Jaeger. In review. The influence of hydrologic connectivity on ecosystem service provision and tradeoffs in aquatic systems. In review at *Journal of the American Water Resources Association*.

^ARosenzweig, B., **L. McPhillips**, H. Chang, C. Cheng, C. Welty, M. Matsler, D. Iwaniec and C. Davidson. In revision. Pluvial Flooding Risk and Resilience. In revision at *Wiley Interdisciplinary Reviews (WIREs)-Water*.

Published papers

¹³**McPhillips, L.E.** and M. Matsler. 2018. Temporal evolution of green stormwater infrastructure in three US cities. *Frontiers in Built Environment*, 4, doi: 10.3389/fbuil.2018.00026.

¹²**McPhillips L.E.**, H. Chang, M.V. Chester, Y. Depietri, E. Friedman, N.B. Grimm, J.S. Kominoski, T. McPhearson, P. Méndez-Lázaro, E.J. Rosi, J. Shafiei Shiva. 2018. Defining extreme events: a cross-disciplinary review. *Earth's Future*. doi:10.1002/2017EF000686.

¹¹**McPhillips, L.E.**, C.L. Goodale, M.T. Walter. 2018. Nutrient leaching and greenhouse gas emissions in grassed detention and bioretention stormwater basins, *Journal of Sustainable Water in the Built Environment*, 4(1), doi: 10.1061/JSWBAY.0000837.

¹⁰Grabowski, Z.J., A.M. Matsler, C. Thiel, **L.E. McPhillips**, R. Hum, A. Bradshaw, T. Miller, C. Redman, 2017, Infrastructures as Socio-Eco-Technical Systems: five considerations for interdisciplinary dialogue, *Journal of Infrastructure Systems*. doi: 10.1061/(ASCE)IS.1943-555X.0000383

- ⁹Morse, N.R., **McPhillips, L.E.**, J.P. Shapleigh, M.T. Walter. 2017. The role of denitrification in stormwater basin treatment of nitrogen, *Environmental Science & Technology*. doi: 10.1021/acs.est.7b01813
- ⁸**McPhillips, L.E.**, P.M. Groffman, R.L. Schneider, M.T. Walter. 2016. Nutrient cycling in grassed roadside ditches and lawns in a suburban watershed, *Journal of Environmental Quality*. doi: 10.2134/jeq2016.05.0178
- ⁷Friedman, E.S., **L.E. McPhillips**, J.J. Werner, A.C. Poole, R.E. Ley, M.T. Walter, L.T. Angenent, 2016. Methane emissions in a specific riparian-zone sediment decreased with bioelectrochemical manipulation and corresponded to the microbial community dynamics, *Frontiers in Microbiology*, 6:1523. doi: 10.3389/fmicb.2015.01523.
- ⁶**McPhillips, L.E.** and M.T. Walter. 2015. Hydrologic conditions drive denitrification and greenhouse gas emissions in stormwater detention basins, *Ecological Engineering*, 85C: 67-75. <http://dx.doi.org/10.1016/j.ecoleng.2015.10.018>.
- ⁵**McPhillips, L.E.**, P.M. Groffman, C.L. Goodale and M.T. Walter. 2015. Hydrologic and biogeochemical drivers of riparian denitrification in an agricultural watershed. *Water Air and Soil Pollution*, 226:169, doi: 10.1007/s11270-015-2434-2.
- ⁴**McPhillips, L.E.**, A.E. Creamer*, B.G. Rahm, and M.T. Walter. 2014. Assessing drivers of dissolved methane patterns in central New York groundwater. *Journal of Hydrology- Regional Studies*, 1:57-73, doi: 10.1016/j.ejrh.2014.06.002.
- ³Harvey, J.W., J.D. Drummond, R.L. Martin, **L.E. McPhillips**, A.I. Packman, D.J. Jerolmack, S.H. Stonedahl, A. Aubeneau, A.H. Sawyer, L.G. Larsen, and C.R. Tobias. 2012. Stream solute and fine sediment transport interactions with dynamic hyporheic flow and mobile bedforms. *Journal of Geophysical Research- Biogeosciences*, 117, G00N11, doi:10.1029/2012JG002043.
- ²O'Connor, B. L., J. W. Harvey, and **L. E. McPhillips**. 2012. Thresholds of storm-induced bed disturbances and their effects on stream metabolism in an agricultural river. *Water Resources Research*, 48,W08504, doi: 10.1029/2011WR011488 .
- ¹Harvey, J.W., G.B. Noe, L.G. Larsen, D.J. Nowacki and **L.E. McPhillips**. 2010. Field flume reveals aquatic vegetation's role in sediment and particulate phosphorus transport in a shallow aquatic ecosystem. *Geomorphology*. 126: 297-313, doi:10.1016/j.geomorph.2010.03.028.

TECHNICAL REPORTS

- Bussiere, E.T., J.A. Casis, S. Deen, K. Hofmeister, A. Leitgeb, S. Li, **L.E. McPhillips**, G. Reyes- Retana , M. Sand, J. Smith, and R.L. Schneider. 2014. Recommendations for development of a payment for ecosystem services project for Coonoor, India. *Report to Keystone Foundation*. Coonoor, Tamil Nadu, India.

INVITED PRESENTATIONS

- McPhillips, L.E.** 2017. Cross-city evaluation of intentional and accidental stormwater management strategies. Syracuse Center of Excellence in Environmental and Energy Systems Annual Symposium, Syracuse University, Syracuse, NY.
- McPhillips, L.E.** 2017. Multifunctional green infrastructure for managing stormwater in urban landscapes. Dept. of Civil and Environmental Engineering, Pennsylvania State University, State College, PA.
- McPhillips, L.E.** 2016. Nutrient cycling hotspots in suburban mesic watersheds: Stormwater detention basins, grassed road ditches and lawns. Dept. of Hydrology and Atmospheric Sciences, University of Arizona, Tuscon, AZ.
- McPhillips, L.E.** 2016. Hydrology and biogeochemistry in human-impacted systems. Dept. of Ecosystem Science and Management, Pennsylvania State University, State College, PA.

- McPhillips, L.E.,** Morse, N.R., Walter, M.T. 2016. Maximizing ecosystem services in stormwater detention basins: a focus on nutrient cycling. International Association for Great Lakes Research, Guelph, ON, Canada.
- McPhillips, L.E.** 2016. Nutrient cycling hotspots in suburban watersheds: Stormwater detention basins, grassed road ditches and lawns. Hydrology and Biogeochemistry Seminar at State University of New York-Environmental Science and Forestry, Syracuse, NY.
- McPhillips, L.E.,** A.E. Creamer, B.G. Rahm, and M.T. Walter. 2013. Assessing drivers of dissolved methane patterns in Chenango County, NY groundwater. Central New York Association of Professional Geologists Monthly Meeting. Syracuse, NY
- McPhillips, L.E.,** A.E. Creamer, B.G. Rahm, and M.T. Walter. 2013. Baseline evaluation of groundwater quality in central New York prior to shale gas development. Valley Central High School Science Research Symposium. Montgomery, NY.
- PRESENTATIONS** (*presenter underlined; poster unless noted otherwise*)
- McPhillips, L.E.** N.B. Grimm, R. Hale, S. Earl. 2018. Do urban desert streams in Arizona experience the 'Urban Stream Syndrome'? Consortium of Universities for the Advancement of Hydrologic Science, Inc (CUAHSI) Biennial Colloquium, Shepherdstown, WV.
- McPhillips, L.E.** and A.M. Matsler. 2018. Temporal evolution of green stormwater infrastructure in three US cities. University Council on Water Resources (UCOWR)/ National Institutes of Water Resources (NIWR) annual meeting, Pittsburgh, PA. [*oral presentation*]
- Kelleher, C. and **L.E. McPhillips.** 2017. Urban nuisance flooding and topographic wetness index: does excess runoff collect where we think it should in urban landscapes? American Geophysical Union Fall Meeting, New Orleans, LA. [*oral presentation*]
- McPhillips, L.E.,** C. Cheng, T. McPhearson, N.B. Grimm. 2017. Cross-city comparison of green infrastructure distribution in US and Latin American cities. 2nd Conference of the Programme for Ecosystem Change and Society, Oaxaca, MX. [*oral presentation*]
- Cheng, C., N.B. Grimm, **L.E. McPhillips,** J. Lee, and M. Palta. 2017. Green infrastructure, urban resilience, and sustainability. Resilience Alliance 2017 Conference, Stockholm, Sweden. [*oral presentation*]
- Grimm, N.B., M. Chester, Y. Kim, **L.E. McPhillips,** C. Redman. 2017. When is safe-to-fail safe? Resilience Alliance 2017 Conference, Stockholm, Sweden. [*oral presentation*]
- Grimm, N.B., M. Berbés Blásquez, C. Cheng, E.M. Cook, T. McPhearson, and **L.E. McPhillips.** 2017. Assessing urban aquatic services in the face of climate-driven extreme events. Ecological Society of America Annual Meeting, Portland, OR. [*oral presentation*]
- McPhillips, L.E.,** N.B. Grimm, T. McPhearson, and S.M. Newell. 2017. Cross-city comparison of vacant lot form and function: Do they contribute to resilience or vulnerability? Ecological Society of America Annual Meeting, Portland, OR. [*oral presentation*]
- McPhillips, L.E.** and M. Palta. 2017. Hydrologic connectivity and ecosystem services across a range of systems. AWRA Spring Specialty Conference, Snowbird, UT. [*oral presentation*]
- McPhillips, L.E.** and N.B. Grimm. 2017. Cross-city comparison of green infrastructure and land cover. Urban Resilience to Extremes Sustainability Research Network All-Hands Meeting, New York, NY.
- McPhillips, L.E.** and N.B. Grimm. 2017. Cross-city comparison of green space distribution and characteristics. Central Arizona- Phoenix Long-Term Ecological Research All Scientists Meeting, Scottsdale, AZ.
- Grimm, N.B., S. Earl, R. Hale, **L.E. McPhillips,** and A. Handler. 2016. Long-term variability in storm-driven hydrologic and nutrient export from urban and native desert streams in Arizona, USA. American Geophysical Union Fall Meeting, San Francisco, CA.

- McPhillips, L.E.** and M.T. Walter. 2016. A tale of two stormwater basins: Nutrient cycling in grassed stormwater detention versus bioretention basins. American Geophysical Union Fall Meeting, San Francisco, CA.
- Grimm, N.B., S. Earl, R. Hale, **L.E. McPhillips**, and A. Handler. 2016. Long-term variability in storm-driven hydrologic and nutrient export from urban and native desert streams in Arizona, USA. International Long-Term Ecological Research (ILTER) Open Science Meeting, Kruger National Park, South Africa.
- Morse, N.R., **L.E. McPhillips**, and M.T. Walter. 2015. Green infrastructure: Why can't we effectively treat nitrogen, and what are the microbes doing? American Geophysical Union Fall Meeting, San Francisco, CA.
- McPhillips, L.E.** and M.T. Walter. 2015. Are grassed roadside ditches biogeochemical hotspots? Ecological Society of America Annual Meeting, Baltimore, MD. [*oral presentation*]
- McPhillips, L.E.** and M.T. Walter. 2015. Biogeochemical cycling in grassed roadside ditches. International Association of Great Lakes Research Conference, Burlington, VT. [*oral presentation*]
- McPhillips, L.E.** 2014. Hydrologists in the city: re-envisioning how we manage water in urban areas. American Geophysical Union Fall Meeting, San Francisco, CA. [*oral presentation*]
- McPhillips, L.E.** and M.T. Walter. 2014. Road salt accumulation and wash-out in stormwater detention basins: patterns and implications for biogeochemical cycling. American Geophysical Union Fall Meeting, San Francisco, CA.
- McPhillips, L.E.** and M.T. Walter. 2014. Biogeochemical processes in green stormwater infrastructure: balancing water quality services and greenhouse gas emissions. 1st International Workshop on Urbanization in Watersheds: Ecological and Environmental Responses. Xiamen, Fujian, China.
- Grabowski, Z.J., A.M. Matsler, C. Thiel, **L.E. McPhillips**, R. Hum, A. Bradshaw, T. Miller, C. Redman, 2014. Weaving the seamless web: conceptualizing integrated infrastructures for the 21st century, American Association of Geographers Annual Meeting. Tampa, FL. [*oral presentation*]
- McPhillips, L.E.**, A. Fortman, C. Georgakakos, and M.T. Walter. 2013. Biogeochemical processes in stormwater detention basins: balancing water quality services and greenhouse gas emissions. Third Conference for Sustainability IGERTs (C4SI3). Portland, OR.
- McPhillips, L.E.**, J.R. Barclay, and C.A. Roco, 2013. Creating a bridge from microbiology to modeling: Improving our capabilities to understand nitrous oxide dynamics on multiple scales and create better climate models for the future. National Science Foundation IGERT (Integrative Graduate Education and Research Traineeship) Online Poster and Video Competition. [*poster and video presentation*]
- A.E. Creamer, **McPhillips, L.E.**, M.T. Walter, and B.G. Rahm. 2013. Baseline evaluation of groundwater quality in central New York prior to shale gas development. Institute of Biological Engineering Annual Meeting, Raleigh, NC. [*1st place undergraduate poster awarded to A.E. Creamer*]
- Friedman, E.S., **L.E. McPhillips**, K. Miller, D.A. Lipson, M.T. Walter, L.T. Angenent. 2013. Use of Microbial Electrochemical Systems to Study Microbial Community Dynamics in Environmental Ecosystems. Association of Environmental Engineering & Science Professors (AEESP) 50th Anniversary Conference, Golden, CO. [*oral presentation*]
- McPhillips, L.E.**, A.E. Creamer, M.T. Walter, and B.G. Rahm. 2012. Baseline evaluation of groundwater quality in central New York prior to shale gas development. American Geophysical Union Fall Meeting, San Francisco, CA.
- Harvey, J.W., J.D. Drummond, B.L. O'Connor, R.L. Martin, A.S. Bhaskar, **L.E. McPhillips**, A.I. Packman, D.J. Jerolmack, E.J. Henry, 2012. Hydrogeomorphology of the Hyporheic Zone: Mobile Bedforms, Dynamic Hyporheic Flow, and Influence on Stream Ecology. American Geophysical Union Fall Meeting, San Francisco, CA. [*oral presentation*]

- Walter, M.T., L.E. McPhillips, J.A. Archibald, T.R. Anderson, C.K. Morris, 2012. Hydrologic controls on phosphorus and nitrogen biogeochemistry in agricultural landscapes. American Geophysical Union Fall Meeting, San Francisco, CA. [oral presentation]
- Buchanan, B., L.E. McPhillips, M.T. Walter, S.C. Beyeler, E.A. Kreitinger, and M.B. Fitzgerald, 2012. Baseline evaluation of water quality in the Hudson River Valley in the face of Emerald Ash Borer infestation. Hudson River Environmental Society "Clean Water Act at 40: Facing the Future" Conference, Poughkeepsie, NY..
- McPhillips, L.E., M.T. Walter, A.E. Creamer, B. Rahm, and S. Riha, 2012. Baseline evaluation of groundwater quality in central New York in the face of shale gas development. Hudson River Environmental Society "Clean Water Act at 40: Facing the Future" Conference, Poughkeepsie, NY.
- McPhillips, L.E. and M.T. Walter, 2012. Teasing out hydrologic and biogeochemical controls on riparian denitrification. Penn State Environmental Chemistry Student Symposium, State College, PA.
- McPhillips, L.E. and M.T. Walter, 2011. Teasing out hydrogeomorphic controls on riparian denitrification. American Geophysical Union Fall Meeting, San Francisco, CA.
- Larsen, L. G., J.W. Harvey, L.E. McPhillips, and M. Maglio. 2010. Controls on ecosystem metabolism in restored and unrestored suburban streams: roles of flow, geomorphology, and fine sediment dynamics. American Society of Limnology and Oceanography- North American Benthological Society Joint Meeting, Santa Fe, NM.
- McPhillips, L.E., J.W. Harvey, A.I. Packman, D.J. Jerolmack, C.R. Tobias, J.K. Bohlke, E.J. Henry, L.G. Larsen, A. Aubeneau, J. Drummond, K. Duernberger, A.H. Sawyer, M. Lettrich, R. Martin, M. Maglio, S. Mroczkowski, S. Stonedahl, 2010. Hydrogeomorphic drivers of stream ecological processes: the 2009 Clear Run studies. American Society of Limnology and Oceanography- North American Benthological Society Joint Meeting, Santa Fe, NM.
- O'Connor, B.L., J.W. Harvey, and L.E. McPhillips, 2009. The effects of hydraulics, geomorphology, and storm events on metabolism rates in an agricultural river. American Geophysical Union Fall Meeting, San Francisco, CA.
- McPhillips, L.E., B.L. O'Connor, and J.W. Harvey, 2009. Characterization of eco-hydraulic habitats for examining biogeochemical processes in rivers. American Geophysical Union Fall Meeting, San Francisco, CA.
- Harvey, J.W., G.B. Noe, L.G. Larsen, D.J. Nowacki, R.W. Schaffranek, and L.E. McPhillips, 2008. Eco-hydraulic relationships governing surface-water flow across the Everglades. Greater Everglades Ecosystem Restoration (GEER) Policy, Planning, and Science Meeting, Naples, FL.
- Harvey, J.W., G.B. Noe, L.G. Larsen, D.J. Nowacki, R.W. Schaffranek, and L.E. McPhillips, 2008. Eco-hydraulic relationships governing surface-water flow across the Everglades. Society of Wetland Scientists Annual Meeting, Washington, DC.
- Grossman, J.M., B.E. O'Neill, L.E. McPhillips, S.M. Tsai, J. Lehmann, and J. E. Thies, 2007. Microbial ecology of anthrosols: Assessing soil community diversity of bacteria, archaea, and fungi in Amazonian dark earths of Brazil. Ecological Society of America Annual Meeting, San Jose, CA. [oral presentation]
- McPhillips, L.E., B.E. O'Neill, J.M. Grossman, S.M. Tsai, J. Lehmann, and J. E. Thies, 2007. Soil Fungal Communities in Three Amazonian Dark Earth (ADE) Sites Characterized by Molecular Fingerprinting, Isolating Unique Species and Assessing Arbuscular Mycorrhizal Fungi. International Agri-Char Initiative Conference, Terrigal, New South Wales, Australia.

RELEVANT SERVICE & OUTREACH ACTIVITIES

Committees

American Society of Civil Engineers (ASCE) Committee on Sustainability, Sustainability Liaison Subcommittee

L. McPhillips (07/2018)

Special issues or sessions convened

Climate journal special issue "Climate Change Resilience and Urban Sustainability" Co-editor: 2018
American Geophysical Union Fall Meeting Session Co-Convener (Water, Energy, and Society in Urban Systems): 2018

American Water Resources Association Spring Specialty Conference Session Chairperson: 2017

American Geophysical Union Fall Meeting Session Primary Convener: 2014

Outreach

Expanding Your Horizons (EYH) "Water Quality Detectives" Workshop Developer & Coordinator: 2011- 2014

Cornell Environmentor program, mentor to undergraduate environmental science majors: 2010- 2015

Museum of the Earth, Ithaca NY, volunteer docent: 2003-2007

Grant Review

Urban Resilience to Extremes Sustainability Research Network Grad Grant panel: 2018

NSF grant review panel: 2017

Central Arizona- Phoenix LTER Grad Grant review panel: 2017

Cornell Cross-Scale Biogeochemistry and Climate IGERT small grant review panel: 2011, 2012, 2014

Manuscript Review

Agriculture, Ecosystems, and Environment; Biogeochemistry; Chemosphere; Ecosystems; Environmental Monitoring & Assessment; Environmental Science & Technology; Freshwater Science; Global Environmental Change; Hydrogeology Journal; Journal of the American Water Resources Association; Journal of Geophysical Research- Biogeosciences; Journal of Hydrology; Journal of Hydrology- Regional Studies; Nutrient Cycling in Agroecosystems; PLOS One; Sustainability; Urban Ecosystems; Water; Water Research; Water Resources Research; Wetlands

STUDENT COMMITTEES

Stephen Elser (Arizona State University Environmental Life Sciences PhD)

Tasnuva Mahjabin (Pennsylvania State University Civil & Environmental Engineering PhD)

MENTORING

David Nardelli, B.S. (2017) Paul Smith's College, Project: Monitoring stormwater outfalls to the Salt River

Shannon Newell, B.S. (2017) Northern Arizona U., Project: Soil properties of vacant lots in Phoenix

Liza Johnson, B.S. (2015) Cornell U., Project: Nutrient cycling in green stormwater infrastructure

Brandon Roosenboom, B.S. (2014) UC Davis, Project: Water quality & greenhouse gases in road ditches

Breann Liebermann, B.S., M.Eng. (2013-14), Cornell U., Project: Using citizen science in stream gaging

Caitlin Rose McKinley, B.S. (2013-14), Cornell U., Project: Groundwater methane patterns in Tompkins Co. NY

Christine Georgakakos, B.S. (2013-14), Cornell U., Project: Testing a novel camera stream gage

Helen Bergstrom, B.S. (2012), Brown U., Project: Using potentiostats to examine Fe-N dynamics in soils

Rachel Whiteheart, B.S. (2012), Cornell U., Project: Greenhouse gas emissions from stormwater basins

Anne Elise Creamer, B.S. (2011-13), Cornell U., Project: Baseline groundwater methane patterns in central NY

Andrea Fortman , B.S. (2012-13) Cornell U., Project: Water quality in stormwater basins

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science

American Society of Civil Engineers

American Geophysical Union

Soil Science Society of America