


# SARAH BEGANSKAS, PhD

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Innovative hydrologist with a background in computer science and geology. Enthusiastic about addressing environmental challenges, widely communicating scientific findings, and engaging communities. In addition to my scientific expertise, I have a strong background in communication, leadership, and outreach.

## **POSTDOCTORAL FELLOW**

Temple University  
*Delaware River  
Watershed Initiative*  
Philadelphia, PA  
2018–pres.

- Lead 3 and collaborate on 4 team research projects studying urban surface water quality. Research topics include in-stream sediment transport, drivers of stream temperature variability, and nutrient removal in stormwater bioretention basins.
- Develop new code and techniques to statistically analyze time-series data, couple hydrologic models, and visualize model output; 4 colleagues used these codes.
- Train and coordinate 17 citizen science volunteers to collect stream temperature data from 26 sites for 2 years; showcase results in an interactive data portal; engage volunteers and watershed partners with a bi-monthly newsletter.
- Supervise 6 graduate and undergraduate students to design experiments, develop code, analyze & interpret data, write publications & reports, and present results.
- Collaborate with scientists, engineers, and 4 watershed management agencies.

## **GRADUATE STUDENT RESEARCHER**

University of  
California,  
Santa Cruz  
Santa Cruz, CA  
2012–2018

- Designed, led, and raised >\$125,000 in funding for 3 research projects studying water resource improvement; this work linked diverse methods from physical hydrology, computer modeling, geochemistry, and microbiology.
- Communicated results via 4 peer-reviewed scientific publications, 4 community events, 3 news articles, 2 guest blog posts, >20 presentations at industry and academic conferences, 5 reports for stakeholders, and 4 data releases.
- Trained and coordinated a team of 10 graduate and undergraduate students to construct experimental plots and process daily water quality samples.
- Developed a shared workflow to download and reformat high-spatial-resolution soil, vegetation, climatologic, and topographic data to drive a regional watershed model; wrote code to visualize text-based output and interpret hydrologic results.
- Collaborated with local agencies, stakeholders, and other research institutions.
- Lead instructor for a graduate course on how to teach effectively; led 3 workshops for students on how to present science findings to diverse audiences.

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## OTHER PROFESSIONAL POSITIONS

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- Part-time hydrologic technician**, Balance Hydrologics, Inc., Santa Cruz, CA 2017–2018
- Conducted stream reach surveys and high flow measurements for clients in the Santa Cruz region
- Undergraduate researcher**, Keck Geology Consortium, Nederland, CO 2011–12
- Sampled streamwater and sediment; conducted water quality analyses at USGS Boulder
  - Linked results with spatial wildfire and historical mining data in ArcGIS for a senior honors thesis
- Books Production Intern**, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY 2008–12
- Copyedited, proofread, and edited layout for print and online scientific publications
  - Projects ranged from technical works to books aimed at a general audience

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## EDUCATION

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- University of California, Santa Cruz**, Santa Cruz, California 2018
- Ph.D. in Hydrology
- Dissertation: “Runoff generation, infiltration dynamics, and recharge across multiple scales: Applications for improving groundwater supply and quality”
- Amherst College**, Amherst, Massachusetts 2012
- B.A. in Computer Science and B.A. in Geology, *magna cum laude*
- Thesis: “The geochemical impact of wildfire and mining on the Fourmile Creek Watershed, Colorado”

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## PUBLICATIONS

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- Donaghue, A., **S. Beganskas**, E.R. McKenzie. 2021. Inverted or raised? The impact of bioretention underdrain height on internal water storage hydraulics. *Journal of Sustainable Water in the Built Environment*. In review.
- Gorski, G., A.T. Fisher, H. Dailey, **S. Beganskas**, and C. Schmidt. 2021. Mapping the potential for denitrification during infiltration with machine learning informed by field and laboratory experiments. *ES&T Water*. In review.
- Beganskas, S.** and L. Toran. 2021. Urban stream temperature patterns: Spatial and temporal heterogeneity. *Hydrological Processes*. 35(2), e14039. <https://doi.org/10.1002/hyp.14039>
- Beganskas, S.**, R.J. Ryan, E. Walters, M. Soro, E. Cushman, L. Toran. 2020. Coupling PCSWMM and WASP to evaluate green stormwater infrastructure impacts to storm sediment loads in an urban watershed. *Journal of the American Water Resources Association*. 57(1), 134–153. <https://doi.org/10.1111/1752-1688.12896>
- Beganskas, S.**, K. Young, A.T. Fisher, R. Harmon, S. Lozano. 2019. Runoff modeling of a coastal basin to assess variations in response to shifting climate and land use: Implications for managed recharge. *Water Resources Management* 33(5), 1683–1698. <https://doi.org/10.1007/s11269-019-2197-4>
- Gorski, G., A.T. Fisher, **S. Beganskas**, W. Weir, K. Redford, C. Schmidt, C. Saltikov. 2019. Field and laboratory studies linking physical, geochemical, and microbiological changes from enhanced denitrification during infiltration for managed recharge. *Environmental Science and Technology*. <http://dx.doi.org/10.1021/acs.est.9b01191>

**Beganskas, S.**, G. Gorski, T. Weathers, A.T. Fisher, C. Schmidt, C. Satlikov, K. Redford, B. Stoneburner, R. Harmon, W. Weir. 2018. A horizontal permeable reactive barrier stimulates nitrate removal and shifts microbial ecology during rapid infiltration for managed recharge. *Water Research* 144, 274–284.  
<http://dx.doi.org/10.1016/j.watres.2018.07.039>

**Beganskas, S.** and Fisher, A.T. 2017. Coupling distributed stormwater collection and managed aquifer recharge: Field application and implications. *Journal of Environmental Management* 200, 366–379.  
<http://dx.doi.org/10.1016/j.jenvman.2017.05.058>

Fisher, A.T., S. Lozano, **S. Beganskas**, E. Teo, K. Young, W. Weir, and R. Harmon. 2017. Regional managed aquifer recharge and runoff analyses in Santa Cruz and northern Monterey Counties, California, 130 pp, California State Coastal Conservancy, Project 13-118, Santa Cruz, CA.

## AWARDS & HONORS

2017	<b>Wells Fargo Coastal Sustainability Fellowship, \$10,000, UCSC</b>	2015	<b>Water's Award for Excellence in Dissertation Proposal, UCSC</b>
2016, 17	<b>Three-Minute Thesis Finalist, UCSC</b>	2014	<b>Best Student Oral Presentation, GRA</b>
2016	<b>Chancellor's Achievement Award for Diversity, UCSC</b>	2014	<b>Best Student Oral Presentation, BSMAR</b>
2015	<b>P3 Student Design Competition, Phase I Grant, \$15,000, EPA</b>	2012–14	<b>John Clarke Fellowship, \$20,000, Amherst</b>
2015	<b>Dr. Huntley Student Award, GRA</b>	2013	<b>Graduate Research Fellowship, \$120,000, NSF</b>
2015	<b>Certificate of Completion in Teaching Laboratory Experiences, ISEE</b>	2013	<b>Lawson Hydrology Award, \$1,500, UCSC</b>
2015	<b>Honors in Qualifying Exam, UCSC</b>	2012	<b>Inducted into Phi Beta Kappa, Amherst College</b>
		2012	<b>Inducted into Sigma Xi, Amherst College</b>
		2010	<b>Richard M. Foose Award, Amherst College</b>

## TECHNICAL SKILLS

**PROGRAMMING LANGUAGES.** Expert: Python (packages: pandas, arcpy, matplotlib, scipy, json, seaborn, numpy, xlswriter, requests, statsmodels, sklearn). Proficient: Matlab, Java, Netlogo.

**SOFTWARE & MODELS.** Expert: ArcGIS, PRMS, WASP, VS2DRTI, Google Data Studio, Illustrator, Microsoft Office. Proficient: QGIS, PCSWMM, MODFLOW, QIIME, InDesign, Kaliedagraph, Surfer.

**FIELD EXPERIENCE.** Sampling: stormwater, stream water, sediment, algae, auto-sampling, subsurface water (lysimeters, piezometers). Gaging: Streamflow, turbidity, conductivity, precipitation. Other: surveying, instrument installation and maintenance, real-time sensor networks, measuring infiltration rates.

**LAB EXPERIENCE.** Water chemistry: IC, ICP-MS, ICP-OES, ICP-AES, titration, Lachat QuikChem (N species), Shimadzu (TOC), Piccarro (water isotopes), filtering for TSS. Sediment processing: Beckman Coulter Particle Size Analyzer, DNA extraction & phylogenetic sequencing, LOI, EA (C:N ratio), SEM, XRF.

## DATA RELEASES

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**Beganskas, S.** and L. Toran. 2021. Urban stream temperature data: Wissahickon Creek & Naylor's Run, 2017-2018. *Hydroshare*. <https://doi.org/10.4211/hs.3f298a462cfb4e2c983abd085f0770b6>

**Beganskas, S.** et al. 2018. Runoff modeling of a coastal basin to assess variations in response to shifting climate and land use: Implications for managed recharge. *Dryad Dataset*. <https://doi.org/10.7291/D1TW82>

**Beganskas, S.** et al. 2018. Hydrology, geochemistry, and microbiology data from meter-scale infiltration experiments exploring the impact of a woodchip soil amendment on nitrate removal during infiltration. *Dryad Dataset*. <https://doi.org/10.7291/D14D4H>

Fisher, A.T., S. Lozano, **S. Beganskas**, E. Teo, K. Young, W. Weir, and R. Harmon. 2017. Distributed stormwater collection and managed aquifer recharge. *Resource Conservation District of Santa Cruz County*. <http://www.rcdsantacruz.org/managed-aquifer-recharge>

**Beganskas, S.** and A.T. Fisher. 2017. Monitoring data from a managed aquifer recharge system that collects stormwater runoff in central coastal California. Precipitation, runoff, infiltration, sediment, survey. *Dryad Collection*. <https://doi.org/10.7291/D13W28>

## EXPERTISE AND INTERESTS

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Surface water quality, stream health, stormwater management, green stormwater infrastructure, urban streams, groundwater recharge, catchment hydrology, numerical modeling, hydrologic modeling, impacts of climate change and shifting land use on hydrologic systems, code development, data science, data and model visualization, environmental sensor networks, community science, environmental justice, science communication, active learning

## PROFESSIONAL TRAINING

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<b>Environmental Leadership Program (ELP)</b>	2021
Delaware River Watershed Regional Fellow: ELP Fellowships offer intensive leadership and skills training to improve strategy and organizational development skills and strengthen capacity to work with diverse constituencies.	

<b>Facilitating Change in Coastal Science and Policy Course</b>	2018
Skills-based, ten-week course in effective leadership and communication with a focus on engaging with the world outside of academia; Santa Cruz, CA	

<b>UCSC Graduate Leadership Certificate Program</b>	2017
Ten-week course in which participants learn about contemporary leadership thought; develop practical skills for mindful communication, negotiation, and conflict resolution; and reflect honestly on past and current leadership experiences; Santa Cruz, CA	

<b>AGU Congressional Visits Day</b>	2016
One-day preparation workshop and one day spent on Capitol Hill meeting with seven Congressional offices to advocate for science funding and discuss current issues related to my research; Washington DC	
<b>AAAS Catalyzing Advocacy in Science and Engineering (CASE) Workshop</b>	2016
Selected as one of two students sponsored by AGU to attend a three-day workshop about the structure and organization of Congress, the federal budget and appropriations processes, and tools for effective science communication and civic engagement; Washington DC	
<b>Communicating sustainability science and policy</b>	2015
Five-day intensive short course about communicating science to the general public, journalists, and policymakers, Long Marine Laboratory; Santa Cruz, CA	
<b>Professional Development Program (Institute for Scientist and Engineer Educators)</b>	2013, 2014, 2015
Semester-long program about effective teaching through inquiry, designing equitable and inclusive classroom activities, and facilitation; Monterey, CA, Waikoloa, HI, and Santa Cruz, CA	
<b>Expanding Potential</b>	2014, 2016
One-day workshop advocating for women in STEM; Berkeley, CA	
<b>Frontiers abroad geology field camp</b>	2011
Five-week field geology course; New Zealand	

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## OUTREACH & LEADERSHIP

<b>President, Temple University Postdoctoral Association (TUPA)</b>	2020–pres.
TUPA aims to support and enhance the experiences of postdoctoral researchers on a career development and social basis. I helped found the group in 2019 and served as Communications Officer before being elected President. As President, I lead a diverse team of 16 postdocs to raise funds and organize professional development programming for all 150+ postdocs at Temple. I served as Chair of the Organizing Committee for the inaugural Postdoctoral Research Symposium at Temple in Spring 2021.	
<b>Leading citizen science monitoring program</b>	2018–pres.
I trained and am coordinating 16 volunteers to download high-resolution temperature data from 27 locations in four watersheds in the Philadelphia suburbs. I engage the volunteer community with bi-monthly newsletters and an interactive data portal and map.	
<b>Lead virtual outreach program for postdocs</b>	2020
Led a team of 11 postdocs to create a website with 140 compiled and annotated resources for virtual K-12 education, in collaboration with Temple's Office of the Vice President for Research and local Philadelphia teachers and administrators.	
<b>Spoke at TTF Watershed Partnership's Jenkintown Creek Tour</b>	2019
<b>Table at Communities Connecting for a Clean Wissahickon Public Forum, Philadelphia PA</b>	2018

<b>Co-founder and co-leader of GEODES</b>	2015–18
GEODES raises awareness and addresses issues that limit the participation and success of minorities in geosciences. We also encourage department community and facilitate professional development opportunities for students. I co-founded the group and trained leaders to continue after my graduation.	
<b>GRA Education Committee Member</b>	2015–18
Represented students' interests to the committee, especially involved in improving student engagement and organizing student events at GRA's annual meeting	
<b>David Keith Todd Lecture Series Coordinator</b>	2016–18
Prepared marketing materials and coordinate logistics for statewide lectures	
<b>UCSC Representative at the California Science Translators Showcase, Sacramento</b>	2018
<b>Presented at Connecting the Drops: Working Together for Water Public Forum, Capitola, CA</b>	2018
<b>Earth Sciences Category Judge, Santa Cruz County Science &amp; Engineering Fair</b>	2016, 2018
<b>MINT Mentor, UCSC Women's Center</b>	2016–17
<b>UCSC Representative at UC Graduate Advocacy Day, Sacramento</b>	2017
<b>Science Presentation Skills Workshop for CC-RISE, UCSC</b>	2016, 2017, 2018
<b>Exhibitor at USA Science and Engineering Festival, Washington, DC</b>	2016
<b>Selected Talk and Poster at Expanding Potential Workshop, Berkeley, CA</b>	2016
<b>Career panel member for SACNAS, UCSC</b>	2015
<b>Design team leader for ISEE's PDP, UC Santa Cruz and UH Hilo</b>	2014, 2015
Led two teams of graduate students and post-docs through the semester-long process of designing inquiry activities for the Akamai Short Course	
<b>Volunteer at Westlake Elementary School, Santa Cruz, CA</b>	2014
<b>Facilitator at Expanding Your Horizons, Salinas, CA</b>	2014
<b>President of Health and Wellness House, Amherst College</b>	2009–11
<b>Managing News Editor of The Amherst Student, Amherst College</b>	2008–09

## TEACHING EXPERIENCE

<b>Guest lecturer for EES 3021: Groundwater Hydrology, Temple</b>	2019, 2020, 2021
<b>Guest lecturer for EES 8421: Groundwater Modeling, Temple</b>	2020
<b>Guest lecturer for CEE 4725: Environmental Systems Design, Temple</b>	2020
<b>Guest lecturer for CEE 4773/5773: Sustainability Aspects of Water and Wastewater, Temple</b>	2020
<b>Guest lecturer for CEE4161: Urban Streams and Stormwater Management, Temple</b>	2019
<b>Instructor for Eart203: Introductory Teaching Seminar, UCSC</b>	2017
Designed and taught a class for first-year graduate students on how to be an effective teacher	

<b>Guest lecturer for Eart10: Geologic Principles, UCSC</b>	2014, 2017
<b>Teaching assistant for EART110C: Geophysics, UCSC</b> Developed weekly hands-on lab activities and led a lab section for 25 students	2016
<b>Instructor at Akamai Short Course, University of Hawaii, Hilo</b> Helped design and teach a five-day intensive workshop for underrepresented Hawaiian students, with material including renewable energy, computer science, and optics	2013, 2014, 2015
<b>Teaching assistant for Eart10: Geologic Principles, UCSC</b> Led two weekly sections (40 students each) and one weekly lab (25 students)	2013
<b>Teaching assistant for Introduction to Geology, Amherst College</b>	2010
<b>Peer academic tutor, Amherst College</b>	2009–10

## MEDIA

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- Interactive map & portal featuring data collected by community science volunteers**  
<https://temple.maps.arcgis.com/apps/View/index.html?appid=a259e4ec88c94ddfbf3528dc8a5d77e8>
- Tutorial: How to use Google Data Studio and ArcGIS Online to create an interactive data portal**  
<https://www.hydroshare.org/resource/9edae0ef99224e0b85303c6d45797d56/>
- UCTV video featuring my research, July 2018**  
<https://www.youtube.com/watch?v=7r74WHPwZTM>
- Press release 2018 summer, July 2018**  
<https://news.ucsc.edu/2018/07/groundwater-recharge.html>
- Narrated “Audioslides” slideshow for publication in Journal of Environmental Management, June 2017**
- Profile in advance of UC Graduate Advocacy Day, April 2017**  
<https://www.universityofcalifornia.edu/news/california-s-force-research-innovation>
- Article in the San Francisco Chronicle, March 2017**  
<https://tinyurl.com/yyt92bod>
- Three-minute thesis speech at UCSC Grad Slam Finals, February 2017**  
<https://www.youtube.com/watch?v=XpFSTbEOURM>
- Guest blog post for AGU’s The Bridge: Connecting Science and Policy, May 2016**  
<http://thebridge.agu.org/2016/05/13/case-in-point/>
- UCSC profile on my research, April 2016**  
<http://news.ucsc.edu/2016/04/percolating-ideas.html>
- Three-minute thesis speech at UCSC Grad Slam Finals, April 2016**  
<https://www.youtube.com/watch?v=nkH-mCGXki4>
- Guest blog post for UCSC’s Coastal Sustainability Blog, April 2016**  
<https://tinyurl.com/y6gtfynv>
- Article about my research in San Jose Mercury and Santa Cruz Sentinel, March 2016**  
<http://www.santacruzsentinel.com/general-news/20160325/drought-aquifer-woes-here-to-stay>

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## PROFESSIONAL AFFILIATIONS

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2012–pres.	<b>American Geophysical Union</b>
2016–2018	<b>American Association for the Advancement of Science</b>
2013–2018	<b>Groundwater Resources Association of California</b>
2015–2018	<b>UC Water Security and Sustainability Research Initiative</b>
2015–2018	<b>National Ground Water Association</b>
2017–pres.	<b>National Center for Science Education</b>
2017–pres.	<b>Earth Science Women’s Network</b>

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## ACADEMIC SERVICE

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2020	Reviewer for <i>Water, Water Research, Frontiers in Microbiology</i> , and <i>Environmental Science: Water Research &amp; Technology</i>
2019	Reviewer for <i>Journal of Geophysical Research – Earth Surface</i>
2018	Reviewer for <i>Environmental Science and Pollution Research</i>
2017	Reviewer for <i>Environmental Science and Technology</i> and <i>Journal of Environmental Management</i>
2017	Moderator for Collegiate Colloquium (oral and poster session) and David Keith Todd Lectures at the 26 <sup>th</sup> Groundwater Resources of California Annual Meeting

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## CONFERENCE PRESENTATIONS & INVITED TALKS

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**Beganskas, S.**, R.J. Ryan, E. Walters, M. Soro, L. Toran, E. Cushman. 2021. *Reducing sediment pollution in Wissahickon Creek, Philadelphia, PA*. Temple Postdoctoral Research Symposium. Philadelphia, PA (virtual), April 23. **Talk**.

Donaghue, A., **S. Beganskas**, E.R. McKenzie. 2021. *Inverted or raised? The impact of bioretention underdrain height on internal water storage hydraulics*. American Chemical Society Spring 2021 Meeting. Virtual event. April 12. **Talk**.

**Beganskas, S.** 2021. *Using surface water modeling to address water management challenges*. Montana Tech Public Lecture Series. Butte, MT (virtual). January 20. **Talk (invited)**.

**Beganskas, S.** and L. Toran. 2019. *Evaluating relationships between land cover, stream temperature, and stormwater management at local and watershed scales in four urban catchments near Philadelphia, PA*. AGU Fall Meeting. San Francisco, CA, December 9–13. **Poster**.

**Beganskas, S.**, R.J. Ryan, E. Walters, M. Soro, L. Toran, E. Cushman. 2019. *Combining SWMM and WASP modeling with high-resolution field measurements to evaluate runoff and stream water quality under different stormwater management scenarios in the Wissahickon Creek watershed, PA*. AGU Fall Meeting, San Francisco, CA, December 9–13. **Poster**.

**Beganskas, S.** and L. Toran. 2019. *How and why does stream temperature vary in an urban watershed?* Delaware Watershed Research Conference, Philadelphia, PA, November 19. **Poster**.

Donaghue, A., **S. Beganskas**, E.R. McKenzie. 2019. *Raised versus inverted: The significance of bioretention underdrain configuration on IWS mixing*. North East Graduate Student Water Symposium. Amherst, MA. September 7. **Talk**.

**Beganskas, S.**, L. Toran, E. Cushman, E. Walters, R.J. Ryan, A. Donaghue, E. McKenzie. 2019. *Assessing water quality in Philadelphia’s urban runoff*. College of Science & Technology Research Mixer. Philadelphia, PA. February 27. **Talk (invited)**.

**Beganskas, S.** 2019. *Improving groundwater supply and quality via distributed stormwater collection*. Temple Earth & Environmental Science Department Seminar, Philadelphia, PA. January 18. **Talk (invited)**.



- Beganskas, S.,** G. Gorski, T.S. Weathers, A. Fisher, C.M. Schmidt, C. Saltikov, K. Redford, B. Stoneburner, R. Harmon, W. Weir. 2018. *A horizontal permeable reactive barrier stimulates nitrate removal and shifts microbial ecology during rapid infiltration for managed recharge*. AGU Fall Meeting, Washington, DC, December 10–14. **Poster.**
- Barcheck, G., **S. Beganskas**, C. Masteller, A. Pfeiffer, D. Roth, S. Taylor, C. Begeman, V. Yuan, D. Killam, R. Maxwell, S. White, S. Gyalay, Z. Kaufman, J. Pensky, E. Schnorr, A. Serrano. 2018. *GEODES: A model for graduate-student led initiatives in diversity, equity, and inclusion*. AGU Fall Meeting, Washington, DC, December 10–14. **Poster.**
- Cushman, E., L. Toran, **S. Beganskas**. 2018. *Sediment and nutrient concentrations in stormwater runoff at a bioretention basin in a suburban Philadelphia stream catchment*. AGU Fall Meeting, Washington, DC, December 10–14. **Poster.**
- Pensky, J., G. Gorski, H. Dailey, A.T. Fisher, **S. Beganskas**, C. Saltikov, K. Redford, N. Schrad. 2018. *Plot-scale field studies of denitrification and trace element cycling during infiltration for managed recharge*. AGU Fall Meeting, Washington, DC, December 10–14. **Poster.**
- Cushman, E., L. Toran, **S. Beganskas**. 2018. *Sediment and nutrient concentrations in stormwater runoff in three suburban Philadelphia stream catchments*. Delaware Watershed Research Conference, Philadelphia, PA, November 29. **Poster.**
- Beganskas, S.** and A.T. Fisher. 2018. *Replenishing groundwater with stormwater runoff in the Pajaro Valley*. Managing Water Resources with Climate Change, Monterey Institute of International Studies, Monterey, CA, April 16. **Talk (invited).**
- Beganskas, S.,** K. Young, A.T. Fisher. 2018. *Coupling distributed stormwater collection and managed aquifer recharge: Field application, modeling, and implications*. 16th Biennial Symposium on MAR, San Diego, CA, March 6–7. **Talk.**
- Beganskas, S.,** A.T. Fisher, G. Gorski, T. Weathers. 2018. *Addressing groundwater recharge with an eye to water quality: A case study*. 2018 California Plant and Soil Conference, Fresno, CA, February 6–7. **Talk (invited).**
- Beganskas, S.,** K. Young, A. T. Fisher, S. Lozano, R. Harmon, E. Teo. 2017. *Applying a regional hydrology model to evaluate locations for groundwater replenishment with hillslope runoff under different climate and land use scenarios*. AGU Fall Meeting, New Orleans, LA, December 11–15. **Poster.**
- Gorski, G., **S. Beganskas**, W. Weir, K. Redford, C. Saltikov, A.T. Fisher. 2017. *Linking field and laboratory studies to investigate nitrate removal using permeable reactive barrier technology during managed recharge*. AGU Fall Meeting, New Orleans, LA, December 11–15. **Talk.**
- Young, K., **S. Beganskas**, A.T. Fisher. 2017. *Towards an improved understanding of hillslope runoff as a supply for groundwater recharge: Assessing hillslope runoff under regional deforestation and varying climate conditions in a drainage basin in central coastal California*. AGU Fall Meeting, New Orleans, LA, December 11–15. **Poster.**
- Teo, E., **S. Beganskas**, K. Young, W. Weir, R. Harmon, S. Lozano, A.T. Fisher. 2017. *Using a geographic information system and hillslope runoff modeling to support decision-making for managed aquifer recharge using distributed stormwater collection*. AGU Fall Meeting, New Orleans, LA, December 11–15. **Poster.**
- Beganskas, S.,** A.T. Fisher, K. Young, and E. Teo. 2017. *Locating the best sites for groundwater recharge in Santa Cruz County*. Maximizing groundwater recharge: Land use, groundwater and flood management symposium, Agriculture and Natural Resources, University of California Davis, October 4–5. **Talk and panel (invited).**
- Beganskas, S.,** A.T. Fisher, K. Young. 2017. *Coupling distributed stormwater collection and managed aquifer recharge: Field application, modeling, and implications*. 26<sup>th</sup> GRA Annual Meeting, Sacramento, CA, October 3–4. **Talk.**
- Beganskas, S.,** T. Weathers, A.T. Fisher, G. Gorski, C. Saltikov. 2017. *Carbon-rich amendments stimulate microbially-mediated nitrate removal in pilot infiltration studies*. Goldschmidt, Paris, France, August 13–18. **Talk.**
- Beganskas, S.,** T. Weathers, A.T. Fisher, G. Gorski, C. Saltikov, W. Weir, R. Harmon. 2017. *Carbon-rich amendments stimulate nitrate removal in pilot infiltration studies*. 13<sup>th</sup> Annual Graduate Research Symposium, Santa Cruz, CA, May 12. **Poster.**
- Beganskas, S.,** T. Weathers, A.T. Fisher, G. Gorski, C. Saltikov. 2017. *Carbon-rich amendments stimulate nitrate removal in pilot infiltration studies*. Rocky Mountain Geobiology Symposium, Golden, CO, April 8. **Poster.**

**Beganskas, S.,** G. Gorski, A.T. Fisher, W. Weir, C. Schmidt, T. Weathers, R. Harmon, C. Saltikov, B. Stoneburner, J. Hernandez. 2016. *Investigating controls on denitrification rates during managed aquifer recharge: Field studies of infiltration*. AGU Fall Meeting, San Francisco, CA, December 12–16. **Poster.**

Gorski, G., **S. Beganskas**, W. Weir, P. Karim, C. Saltikov, J. Hernandez, A.T. Fisher. 2016. *Investigating controls on denitrification rates during managed aquifer recharge: Linking field and laboratory column experiments*. American Geophysical Union Fall Meeting, San Francisco, CA, December 12–16. **Poster.**

Young, K., A.T. Fisher, **S. Beganskas**, R. Harmon, E. Teo, W. Weir, S. Lozano. 2016. *A high-resolution, regional analysis of stormwater runoff for managed aquifer recharge site assessment*. American Geophysical Union Fall Meeting, San Francisco, CA, December 12–16. **Talk.**

Teo, E., K. Young, **S. Beganskas**, A.T. Fisher, S. Lozano, W. Weir, R. Harmon. 2016. *Linking collection of stormwater runoff to managed aquifer recharge using a geographic information system and hydrologic modeling*. American Geophysical Union Fall Meeting, San Francisco, CA, December 12–16. **Talk.**

**Beganskas, S.,** K. Young, A.T. Fisher, R. Harmon, E. Teo, W. Weir, S. Lozano. 2016. *Evaluating locations for distributed stormwater collection with a regional surface hydrology model in central coastal California*. 25<sup>th</sup> GRA Annual Meeting, Concord, CA, September 28–29. **Talk.**

Gorski, G., **S. Beganskas**, W. Weir, C.W. Saltikov, A.T. Fisher. 2016. *Enhancing nitrate removal during infiltration for managed aquifer recharge experiments using reactive barrier technology*. 25<sup>th</sup> Groundwater Resources Association Annual Meeting, Concord, CA, September 28–29. **Talk.**

**Beganskas, S.,** K. Young, R. Harmon, E. Teo, W. Weir, S. Lozano, A.T. Fisher. 2016. *Evaluating locations for distributed stormwater collection with regional surface hydrologic models in central coastal California*. 9<sup>th</sup> International Symposium on Managed Aquifer Recharge, Mexico City, Mexico, June 20–24. **Talk.**

Gorski, G., **S. Beganskas**, W. Weir, J. Murray, C.W. Saltikov, A.T. Fisher. 2016. *Investigating conditions for denitrification during controlled MAR experiments using reactive barrier technology*. 9<sup>th</sup> International Symposium on Managed Aquifer Recharge, Mexico City, Mexico, June 20–24. **Talk.**

**Beganskas, S.,** G. Gorski, R. Harmon, W. Weir, A.T. Fisher, C. Saltikov, B. Stoneburner, K. Young, E. Teo, J. Hernandez, D. Runneals. 2015. *Applying reactive barrier technology to enhance microbially-mediated denitrification during managed aquifer recharge*. AGU Fall Meeting, San Francisco, CA, December 14–18. **Poster.**

Young, K., **S. Beganskas**, A.T. Fisher. 2015. *Regional analysis of stormwater runoff for the placement of managed aquifer recharge sites in Santa Cruz and northern Monterey Counties, California*. American Geophysical Union Fall Meeting, San Francisco, CA, December 14–18. **Poster.**

Teo, E., R. Harmon, **S. Beganskas**, K. Young, A.T. Fisher, W. Weir, S. Lozano. 2015. *Using a geographic information system to assess site suitability for managed aquifer recharge using stormwater capture*. American Geophysical Union Fall Meeting, San Francisco, CA, December 14–18. **Poster.**

**Beganskas, S.,** K. Young, R. Harmon, E. Teo, W. Weir, A.T. Fisher, S. Lozano. 2015. *Developing a surface hydrologic model to evaluate distributed stormwater collection for managed aquifer recharge*. 30<sup>th</sup> Biennial Groundwater Conference and 24<sup>th</sup> GRA Annual Meeting, Sacramento, CA, October 6–7. **Poster.**

**Beganskas, S.,** A.T. Fisher, M. Los Huertos, C. Hill. 2014. *Coupling stormwater capture and managed aquifer recharge*. AGU Fall Meeting, San Francisco, CA, December 15–19. **Talk.**

Harmon, R., A.T. Fisher, **S. Beganskas**, T. Russo. 2014. *A geospatial analysis of stormwater runoff and capture for groundwater recharge*. AGU Fall Meeting, San Francisco, CA, December 15–19. **Poster.**

**Beganskas, S.,** A.T. Fisher, M. Los Huertos, C. Hill. 2014. *Sediment transport and accumulation in a system coupling stormwater capture and managed aquifer recharge*. 23<sup>rd</sup> GRA Annual Meeting, Sacramento, CA, October 15–16. **Talk.**

**Beganskas, S.,** A.T. Fisher, M. Los Huertos, C. Hill. 2014. *Coupling stormwater capture and managed aquifer recharge*. 14<sup>th</sup> Biennial Symposium on MAR, Orange, CA, July 31–August 1. **Talk.**

**Beganskas, S.,** A.T. Fisher, M. Los Huertos. 2013. *Coupling stormwater capture and managed aquifer recharge*. AGU Fall Meeting, San Francisco, CA, December 9–13. **Poster.**

**Beganskas, S.,** A.T. Fisher, M. Los Huertos. 2013. *Developing and testing a system linking stormwater capture and managed aquifer recharge*. 29<sup>th</sup> Biennial Groundwater Conference and 22<sup>nd</sup> GRA Annual Meeting, Sacramento, CA, October 8–9. **Talk.**

**Beganskas, S.,** A. Martini, W. Ouimet, S. Murphy, D. Dethier. 2012. *The geochemical impact of wildfire and mining on stream and sediment chemistry of the Fourmile Creek watershed, Colorado*. Geological Society of America Northeastern Section 47<sup>th</sup> Annual Meeting, March 18–20. **Poster.**

**Beganskas, S.,** A. Martini, W. Ouimet, S. Murphy, D. Dethier. 2012. *The geochemical impact of wildfire and mining on stream and sediment chemistry of the Fourmile Creek watershed, CO*. 25<sup>th</sup> Keck Symposium, April 7. **Talk and poster.**