#### **CURRICULUM VITAE**

**NAME:** Megan Anjuli Rippy

**CURRENT POSITION TITLE:** 

Assistant Professor: Civil and Environmental

**CONTACT:** Occoquan Watershed Monitoring

Lab, Manassas, VA mrippy@vt.edu

Engineering

INSTITUTION	DEGREE	YEAR(s)	FIELD
University of California Santa Cruz Santa Cruz, California, USA	BS	2001 - 2005	Marine Biology
University of California San Diego – Scripps Institution of Oceanography (SIO), La Jolla, California, USA	Masters	2005 - 2011	Marine Biology
University of California San Diego – Scripps Institution of Oceanography (SIO), La Jolla, California, USA	PhD	2005 - 2012	Biological Oceanography

**RESEARCH INTERESTS:** My research interests include: coastal, estuarine, and riverine water quality, and fate and transport modeling of contaminants (pathogens, fecal indicators, micropollutants, etc). I am interested in both natural and engineered systems, with an emphasis on sustainable, green engineering designs with a biological component (e.g., constructed wetlands and biofilters). I am also deeply vested in issues related to urban water supply and demand. This includes 1) identifying climatic vs. management-related drivers of demand and innovative methods for demand analysis (e.g., wavelets) and 2) holistic evaluation of natural treatment systems from both a water demand management and social-ecological cobenefit perspective.

#### RESEARCH AND PROFESSIONAL EXPERIENCE:

MBARI Internship (2004). Population structure of hydrothermal vent symbionts.

Researcher, undergraduate (2004). Spirobranchus giganteus; Reproductive barriers & polymorphism.

Researcher, undergraduate (2005). Natural Selection in *Mytilus californianus*: a study of antimicrobial peptides.

Researcher, graduate (2005-2006). Luminex; A high throughput genetic method for plankton identification.

Research Assistant, graduate (2006): SCOOS HB06: Surfzone dynamics and beach bacterial pollution

Researcher, graduate (2008-2009): Sediment fate & transport study: Source dynamics of fecal indicator bacteria at Border Field state park.

Researcher, graduate (2009): IB09: Patch dynamics of nutrients, *Enterococcus*, & chlorophyll near the Tijuana river

Researcher, postdoctoral (2012): The effects of the bloom forming dinoflagellate Lingulodinium

- *polyedrum* on the mortality of *Enterococcus faecium* in seawater: mortality rates, water quality impacts, and monitoring implications.
- Researcher, specialist (2013): UCI PIRE Layer 1; Improving pollutant removal in biofilters and streams.
- Researcher, postdoctoral (2013-2017): UCI PIRE Layer 1; Emphasis: surface microlayers in LID systems, pollutant removal trade-offs associated with novel engineering design, fate/transport modeling of conservative tracers in urban estuaries, and timeseries analysis of urban water demand.
- Researcher, postdoctoral (2017-2018): UCI MRPI; Emphasis: ecosystem services and disservices in green stormwater infrastructure
- Researcher, assistant project scientist (2018): UCI MRPI; Emphasis: fate/transport modeling of biofilters, ecosystem services and disservices in green stormwater infrastructure, and coupled human-natural systems

Assistant Professor, Virginia Tech (2018 - present)

# IRB APPROVED HUMAN SUBJECTS STUDIES (1)

Lead Researcher: **Rippy, M.A.** - HS# 2017-3998, "UC Reliance #2817: Fighting Drought with Stormwater: The Perceived Services and Disservices of Natural Treatment Systems (2017)

## **GRANTS (6):**

- **Rippy, M. A.** (*Author*) "Surfzone Bacterial Pollution: Biological Mediation of Bacterial Inactivation" Michael M. Mullin Fund (\$5,000 July 5, 2007)
- **Rippy, M. A.** (Author) "Sediment Sampling in Support of the Tijuana Sediment Fate and Transport Demonstration Project" California Department Boating and Waterways (\$100,000 October 9, 2008 October 31, 2009).
- Feddersen, F. (*PI*); Franks, P. J. S. (*PI*); Guza, R. T. (*Author*); **Rippy, M. A.** (*Author*); Omand, M (*Author*). "Patch Dynamics of Nutrients, Fecal Indicator Bacteria and Chlorophyll near the Tijuana River." California Sea Grant (**\$240,277** December 8, 2008 present).
- Asch, R. (*Author*); Cawood, A. (*Author*); Davidson, P. (*Author*); Goldstein, M. (*Chief Scientist*); Ohman, M. (*PI*); Powell, J. (*Author*); **Rippy, M. A.** (*Author*); Taniguchi, D (*Author*). "Distribution and Ecological Consequences of Plastic Debris in the North Pacific Gyre (SEAPLEX)" University of California Ship Fund Committee & Project Kaisai (\$505,000 August 9, 2009 August 21, 2009).
- **Rippy, M. A.** (*Author*) "Surfzone Bacterial Pollution: the Survival of Fecal Indicator Bacteria in a Phytoplankton Soup" California Department of Boating and Waterways Oceanography Program (\$17,400 August, 2012 2013)
- Grant, S. B. (PI); Ambrose, R. (Co-PI); Holden, T. (Co-PI); Levin, L. (Co-PI); Mehring, A. (Author/Co-Investigator); Rippy, M. A. (Author/Co-Investigator); Walker, S. (Co-PI); Winfrey, B. (Author/Co-Investigator). "Fighting Drought With Stormwater: From Research to Practice". A Multicampus Research Proposal (MRPI) University of California Research Initiatives. (\$1,900,000 December

- Venkatasubramanian, N. (*UCI PI*); Grant, S. B. (*UCI Co-PI*); Feldman, D. (*UCI Co-PI*); Hsu, K. (*UCI Co-PI*); Mehrotra, S. (*UCI Co-PI*); **Rippy, M. A.** (*VT PI*). CISTERN: Community-based Intelligent StormwaTER Networks. Cyber-Physical Systems Frontiers, NSF. <u>submitted</u>
- PUBLICATIONS and SUBMITTED MANUSCRIPTS (17): \*indicates corresponding author
- **Rippy**, M. A.\*; Franks, P. J. S.; Feddersen, F.; Guza, R; Moore, D. F. Physical dynamics controlling variability in nearshore fecal pollution: Fecal Indicator Bacteria as passive particles, *Marine Pollution Bulletin.* **2013**. *66*, 151-157.
- **Rippy, M. A.\***; Franks, P. J. S.; Feddersen, F.; Guza, R; Moore, D. F. Factors controlling variability in nearshore fecal pollution: is mortality important? *Marine Pollution Bulletin.* **2013**. *66*, 191-198.
- **Rippy, M. A.\***; Franks, P. J. S.; Feddersen, F.; Guza, R; Warrick, J. A. Beach nourishment impacts on bacteriological water quality and phytoplankton bloom dynamics. *Environmental Science and Technology.* **2013**. *47*, 6146-6154.
- **Rippy**, M. A., Stein, R., Sanders, B., Davis, K., McLaughlin, K., Skinner, J., Kappeler, J., Grant, S. B.\* Small drains, big problems: the impact of dry weather runoff on shoreline water quality at enclosed beaches. *Environmental Science and Technology*. **2014**. *48*, 14168-14177.
- **Rippy, M. A.\*** Meeting the Criteria: linking biofilter design to fecal indicator bacteria removal. *WIREs Water.* **2015.** *2*, 577-592. DOI:10.1002/wat2.1093.
- Azizian, M.; Grant, S. B.\*; Kessler, A.; Cook, P.; **Rippy, M. A.**; Stewardson, M. Bedforms as biocatalytic filters: a pumping and streamline segregation (PASS) model for nitrate removal in permeable sediments. *Environmental Science & Technology.* **2015.** *49*, 10993–11002 DOI:10.1021/acs.est.5b01941.
- Askarizadeh, A.; **Rippy, M.A.**; Fletcher, T.; Feldman, D.; Peng, J.; Bowler, P.; Mehring, A.; Winfrey, B.; Vrugt, J.; AghaKouchak, A.; Jiang, S.; Sanders, B.; Levin, L.; Taylor, S.; Grant, S.B.\* From Rain Tanks to Catchments: Use of Low-Impact Development to Address Hydrologic Symptoms of the Urban Stream Syndrome. *Environmental Science and* Technology. **2015**, *49*, 11264-11280. DOI:10.1021/acs.est.5b01635.
- **Rippy, M. A.\***; Weiden, L.; Cooper, W.; Deletic, A.; Grant, S. B. Microlayer enrichment in natural treatment systems (NTS): linking the surface microlayer to urban water quality. *WIREs Water*, **2016**, *3(2)*, 269-281. DOI:10.1002/wat2.1128.
- Walsh, C.J.\*; Booth, D.B.; Burns, M. J.; Fletcher, T. D.; Hale, R.L.; Hoang, L. N.; Livingston, G.; **Rippy, M.A.**; Roy, A.H.; Scoggins, M.; Wallace, A. Principles for urban stormwater management to protect stream ecosystems. *Freshwater Science*. **2016**, *35*(*1*), 398-411.
- Mehring, A.S.\*; Hatt, B.E.; Kraikittikun, D.; Orelo, B.D.; **Rippy, M.A.**; Grant, S.B.; Gonzalez, J.P.; Jiang, S.C.; Levin, L.A. Soil invertebrates in Australian rain gardens and their potential roles in storage and processing of nitrogen. *Ecological Engineering*, **2016**, *97*, 138-143.
- Hemati, A.; **Rippy, M. A.\***; Grant, S. B.; Davis, K.; Feldman, D. Deconstructing demand: the anthropogenic and climatic drivers of urban water consumption. *Environmental Science and Technology*, **2016**, *50*, 12557-12566. DOI: 10.1021/acs.est.6b02938.

- Peng, J.\*; Cao, Y.\*; **Rippy, M. A.**; Afrooz, ARM N.; Grant, S. B. Indicator and Pathogen Removal by Low Impact Development Best Management Practices. *Water.* **2016**, *8*, 12-24.
- **Rippy, M. A.**; Deletic, A.; Black, J.; Aryal, R.; Lampard, J-L., Tang, J.; McCarthy, D.; Kolotelo, P.; Sidhu, J.; Gernjak, W.\* Pesticide occurrence and spatio-temporal variability in urban run-off across Australia. *Water Research.* **2017**, *115*, 245-255.
- Parker, E. A.; **Rippy, M. A.**; Mehring, A.; Winfrey, B.; Ambrose, R. F.; Levin, L. A.; Grant, S. B.\* The predictive power of clean bed filtration theory for fecal indicator bacteria removal in biofilters. *Environmental Science and Technology.* **2017**, *51*, 5703–5712. DOI: 10.1021/acs.est.7b00752
- Azizian, M.; Boano, F.; Cook, P. L. M.; Detwiler, R. L.; **Rippy, M. A.**; Grant, S. B.\* Ambient groundwater flow diminishes nitrate processing in the hyporheic zone of streams. *Water Resources Research.* **2017**, *53*, 3941–3967.
- Grant, S. B.,\* Azizian, M., Cook, P., Boano, F., **Rippy, M. A.** Factoring physics into local and global assessments of nitrogen pollution. *Science*, 359 (6381), 1266-1269.
- Huang, X.<sup>1</sup>; **Rippy, M. A**.<sup>1</sup>; Mehring, A. S.; Winfrey. B. K.; Jiang, S. C.\*; Grant, S. B. Shifts in dissolved organic matter and microbial community composition are associated with enhanced removal of fecal pollutants in urban stormwater wetlands *Water Research.* **2018**, 137, 310-323.
- Grant, S. B.\*, Azizian, M.; Cook, P., Boano, F., **Rippy, M. A**. Heed thy Speed Limit! <u>Under Review in Science</u>
- Duong, K.; Grant\*, S. B., Pierce, G., Vrugt, J. A.; Feldman, D.; **Rippy, M. A.**; Zanetti, E.; McNulty, A. State emergency proclamations and the built environment drive participation in a "Cash for Grass" water conservation program. *In prep*
- Grant, S.B.\*; **Rippy, M. A.**; Duong, K.; Feldman, D.L.; Peel, M.; Petersen, T.; AghaKouchak, A.; McBride, M.; Ravelico, J.; Davis, K. What makes an urban water system resilient? *In prep*
- Askarizadeh, A.; **Rippy, M. A.**; Feldman, D.; Pettigrove, V.; Sanders, B.; Sengupta, A.; Azizian, Kellar, C.; Grant, S. B.\* Ecosystems on the Edge: In-stream treatment and watershed nitrate management. *In* prep.

# PRESENTATIONS (19):

- **Rippy, M. A.**; Jones, J.; Vrijenhoek, R. C.; ITS Amplification of Vent Tubeworm Symbionts: Testing PCR Fidelity. MBARI Intern Seminar, **2004**, California.
- **Rippy, M. A.**; Feddersen F.; Leichter, J.; Omand, M.; Moore, D. F.; McGee, C. D.; & Franks, P. J. S. Spatio-Temporal Variability in Fecal Indicator Bacteria Concentrations at Huntington Beach: Connections to Physical Forcing. American Geophysics Union Joint Assembly, **2007**, Mexico.
- **Rippy, M. A.**; Warrick, J.; Guza, R.; & Franks, P. J. S. The Ecological Implications of a San Diego Beach Nourishment: Nutrients, Phytoplankton, and Fecal Indicator Bacteria. Ocean Sciences, **2010**, Oregon.
- **Rippy**, M. A.; Franks, P. J. S; Feddersen, F.; & Guza, R. Spatio-Temporal Variability of Nearshore Fecal Indicator Bacteria: the relative importance of fluid dynamics and extra-enteric bacterial mortality. Ocean Sciences, 2012, Utah.

- **Rippy, M. A.** (Invited speaker); Franks, P. J. S; Feddersen, F.; & Guza, R. Physical and Biological Dynamics of Surfzone Bacterial Pollution: Sources, Transports, and Survivorship Mechanisms. SCCWRP, **2012**, California.
- **Rippy**, M. A. (Invited speaker); Franks, P. J. S; Feddersen, F.; & Guza, R. Physical and Biological Dynamics of Surfzone Bacterial Pollution: Fluid Dynamics vs. Mortality. IGMPS Winter Seminar Series, UCSB, 2013, California.
- **Rippy, M. A.** Optimized Water Sensitive Urban Design: Trade-offs in Pollutant Removal Efficiency. California Stormwater Quality Association (CASQA), **2013**, Lake Tahoe, CA.
- **Rippy, M. A**; Weiden, L.; Cooper, W.; Deletic, A.; McCarthy, D.; Grant, S. B. Micropollutants as hotspots in low impact development (LID) systems: linking the surface microlayer to urban water quality. 3<sup>rd</sup> Symposium on Urbanization and Stream Ecology, **2014**, Portland OR.
- **Rippy, M.A.**; Deletic, A.; Gernjak, W. Urban stormwater quality: linking pesticide variability to our sustainable water future. American Geophysical Union Fall Meeting, **2015**, San Francisco, CA.
- **Rippy, M.A.** Watershed Management for a Socially and Ecologically Sustainable Future. *University of Florida Faculty Candidate Seminar*, **2016**, Gainessville, FL.
- **Rippy, M.A.** Human and Environmental Health Microbiology and our Sustainable Urban Water Future. *University of Cincinnati Faculty Candidate Seminar*, **2016**, Cincinnati, OH.
- **Rippy, M.A.** Watershed Management for a Socially and Ecologically Sustainable Future. *University of Cincinnati Faculty Candidate Seminar*, **2016**, Cincinnati, OH.
- **Rippy, M.A.** Coastal Ecosystem Modeling Provides Insights for Our Sustainable Urban Water Future. *University of Central Florida Faculty Candidate Seminar*, **2016**, Orlando, FL.
- **Rippy, M.A.** The Richter Scale of Reduction: decoupling management and climatic related drivers of water conservation behavior. European Geosciences Union General Assembly, **2016**, Vienna, Austria.
- **Rippy**, **M.A.** Drivers of demand: a wavelet based approach for deconstructing climatic and anthropogenic features of urban water demand in Melbourne, Australia. Western Water, **2016**, Victoria, Australia.
- **Rippy**, M.A. An ecological framework for plant selection in biofilters. The California Stormwater Quality Association (CASQA), **2016**, San Diego, California.
- **Rippy**, **M.A.** (Invited Speaker) Universal Adaptive Strategy Theory: Bringing "Bio" to the Forefront of Biofilter Design. Localizing California Waters, **2016**, Yosemite, California.
- **Rippy, M.A.** The Water Sensitive City: A Coupled Human-Natural Systems Perspective, *Northeastern University Faculty Candidate Seminar*, **2017**, Boston, MA.
- **Rippy, M.A.** The Path to the Water Sensitive City is Paved with Good Intentions, *University of Florida Faculty Candidate Seminar*, **2017**, Gainesville, Florida.
- **Rippy, M.A.** The Water Sensitive City: Wavelets and Water Demand, *Utah State University Faculty Candidate Seminar*, **2017**, Logan, Utah.
- Rippy, M. A. The water sensitive city and our journey towards water 4.0, Virginia Tech Faculty

Candidate Seminar, 2018, Blacksburg, VA.

Rippy, M. A. A Tale of Two Cities: evolutionary trajectories of urban water demand, ACS, 2018, New Orleans, LA.

## POSTERS (10):

- **Rippy, M. A.**; Ciglar, A.; Grant, S. B. Are fecal indicator bacteria like salt?: conservative tracer modeling and resistor theory in Newport Bay, California. Ocean Sciences, **2014**, Honolulu, HI.
- Moussavi-aghdam, A.; **Rippy, M. A.** Structural equation modeling of stormwater biofilters. UROP: Undergraduate Research Symposium, **2015**, Irvine, CA.
- **Rippy**, M. A. Meeting the criteria: linking biofilter design to fecal indicator bacteria removal and our sustainable water future. Water Resource Sustainability Issues on Tropical Islands, **2015**, Honolulu, HI.
- Parker, E.A., **Rippy, M. A.**, Mehring, A.S., Winfrey, B.K., Grant, S.B., Vrught, J.A., Hatt, B.E. Treating stormwater with green infrastructure: plants, residence time distributions, and the removal of fecal indicator bacteria. American Geophysical Union Fall Meeting, **2015**, San Francisco, CA.
- Ciglar, A., Rippy, M.A., Grant, S.B. Modeling storm drain pollution in Newport Bay. American Geophysical Union Fall Meeting, 2015, San Francisco, CA.
- Hemati, A. **Rippy, M.A.**, Davis, K. Grant, S.B. Dealing with drought: decoupling climatic and management-related drivers of water conservation behavior. American Geophysical Union Fall Meeting, **2015**, San Francisco, CA.
- Parker, E.A., Grant, S.B., **Rippy**, **M. A.**, Mehring, A.S., Winfrey, B.K., Vrught, J.A., Hatt, B.E. Fecal Indicator Bacteria Removal in Aging Biofilters: Investigating Residence Time Distributions and Plant Effects. Localizing California Waters, **2016**, Yosemite, CA.
- Azizian, M., Rippy, M. A., Grant, S. B. Impacts of Urbanization on Nitrate Processing in Streams: Insights from a Simple Process-Based Model. Localizing California Waters, 2016, Yosemite, CA.
- Hemati, A. **Rippy, M.A.**, Grant, S.B., Davis, K., Feldman, D. Deconstructing Demand: The Anthropogenic and Climatic Drivers of Urban Water Consumption. Localizing California Waters, **2016**, Yosemite, CA.
- Askarizadeh, A. **Rippy, M.A.**, Grant, S.B. From Rain Tanks to Catchments: Use of Low Impact Development to Address Hydrologic Symptoms of the Urban Stream Syndrome. Localizing California Waters, **2016**, Yosemite, CA.

#### **AWARDS:**

Award (2001-2005): UCSC Regent Scholar.

Membership (2002-present): National Society of Collegiate Scholars.

Award (2005): College Honors & Highest Honors in the Major (Marine Biology)

Award (2005): Thesis Honors - (Natural selection in *M. californianus*: a study of antimicrobial peptides)

American Geophysics Union Joint Assembly Outstanding Student Paper Award for talk titled: Spatio-Temporal Variability in Fecal Indicator Bacteria Concentrations at Huntington Beach: Connections to Physical Forcing (2007).

Award (10/1/07 - 3/31/08): Stout Fellowship: \$13,580.

## **TEACHING/ADVISING (Recent):**

- 1) I am a recurrent guest lecturer in the graduate class Urban Water Sustainability at UCI (past 4 years), teaching 1-4 lectures per quarter. I also guest lecture for UCI's undergraduate Probability and Statistics course and assist with the computer-intensive aspects of that course (e.g., coding problem sets in Matlab or R).
- 2) Between 2013 and 2017, I co-developed a yearly, 6 week interdisciplinary and international undergraduate program with a sustainable water focus: Undergraduate PIRE Program Down Under. The program involves 2 weeks of lectures in the US (co-led), 2 weeks of data collection in Australia (co-led), and 2 weeks of data analysis back in the US (led by myself).

## <u>Lectures Delivered for UPP (2013):</u>

## Lectures Delivered for UPP (2014):

- "Pollutant Removal in Biofilter Systems: are there trade-offs?"
- "Measuring Physical and Chemical Water Quality Parameters"
- "Advanced Statistical Tools for Data Analysis"

# <u>Lectures Delivered for UPP (2015):</u>

- "Pollutant Removal in Stormwater Biofilters: Mechanisms and Trade-offs."
- "Advanced Statistical Tools for Data Analysis: An Introduction to Bootstrap"
- "Advanced Statistical Tools for Data Analysis: Structural Equation Modeling"
- "Computer Programming in Matlab and R"

### Lectures Delivered for UPP (2016):

- "Meeting the Criteria: Mechanisms of FIB Removal in Stormwater Biofilters"
- "Urban Stormwater Quality: Pesticide Variability and Management Implications"
- "Advanced Statistical Tools for Data Analysis: Structural Equation Modeling"
- "Evaluating Human and Environmental Co-benefits of Green Infrastructure"
- "Computer Programming in Matlab and R"
- "Hands-On Data Analysis: principal component analysis, structural equation models, & MLR"

## <u>UPP Undergraduate Students Mentored (2013):</u>

Maria Castillo (UCI): Now a *Lab Assistant* at the NRG Oncology Biospecimen Bank Kimberly Duong (UCLA): Now a *graduate student* at UC Irvine

<sup>&</sup>quot;Measuring TSS, chlorophyll, nutrients, and PAR in wetlands"

<sup>&</sup>quot;Non parametric statistical tests and bootstrap methods"

<sup>&</sup>quot;Principal Component Analysis and Generalized Linear Models"

<sup>&</sup>quot;Communicating Science: talks, posters, and papers"

<sup>&</sup>quot;Data Analysis: MLR & Virtual Beach"

<sup>&</sup>quot;Communicating Scientific Findings in Written and Oral Forms"

<sup>&</sup>quot;Communicating Scientific Findings in Written and Oral Forms"

Norma Galaviz (UCI): Now a civil engineering intern at Tetra Tech

Edgar Gomez (UCI): Now a graduate student at UC Irvine

Amanda Jimenez (UCI): Now an odor panelist at Aerotek

Garfield Kwan (UCSD): Now a graduate student at the UC San Diego, SIO

Ava Moussavi-Aghdam (UCI): Now a graduate student at UC Irvine

Emily Parker (UCLA): Now a graduate student at UC Irvine

Samuel Zabb-Parmley (UCLA): Now an intern engineer at KPFF Consulting Engineers

Cameron Patel (UCI): Now a graduate student at UC Irvine

Jessica Slatterlee (UCI): Now a staff engineer at Avocet Environmental, Inc.

Kevin Tran (UCI): Now a graduate student at the University of Michigan

# <u>UPP Undergraduate Students Mentored (2014):</u>

Lynze Cheung (UCI): Now a graduate student at Monash University, AU

Silvia Gonzalez (UCI): Now a graduate student at University of Oregon School of Law

Dana Hernandez (UCI): Now a graduate student at UC Berkeley

Allison Hornstra (UCLA): Now a masters student at the University of Texas at Austin

Diana Kraikittikun (UCSD): Now a physical therapy assistant at Ultrahealth Sports

Joaquin Marquez (UCI)

Caitlin McAlpine (UCI): Now an E.I.T at the US Army Corps of Engineering

Roderic Roberts (UCSD): Now a robotics intern at BASF

Clint Rosser (UCSD)

Elena Sy Su (UCI): Now a civil engineer at Los Angeles Department of Water and Power

Madeline Walzem (UCSD): Now a management intern at the City of San Diego ESD

Joey Yan (UCLA): Now a masters student at Stanford

## <u>UPP Undergraduate Students Mentored (2015):</u>

Belin Cairo (UCI)

Nicole Cuevas (ÚCI)

Andy Hwang (UCSD)

Minna Ho (UCLA)

Shalini Kannan (UCLA)

Alison Khoe (UCSD): Now a masters candidate at Yale

Jimmy Luong (UCSD): Now a *PhD student* at UCLA

Isabella Mariano (UCLA)

Nikole Meade (UCI)

Charlotte Papp (UCI)

Andrew Price (UCI): Now an engineering intern at Mesa Consolidated Water District

Oliver Saeby (UCI): Now a masters student in Environmental Engineering at Stanford

## <u>UPP Undergraduate Students Mentored (2016):</u>

Bailey Balshor (UCI)

Fredy Rabadan (UCSD)

Lydia Natoolo (UCI)

Marina Lindsay (UCLA): Now a career writing consultant at the University of California Santa Barbara

Mayra Martinez (UCI)

Monique Grimaldi (UCSD)

Oswaldo Martinez (UCI)

Paul Barton (UCLA)

Ronald Domholdt (UCI): Now a PhD student in Engineering at the University of Michigan

Sarah Chiang (UCLA): Now an engineering intern at Orange County Public Works

Tess Hoang (UCI): Now a *graduate student* at the University of California, Berkeley

Trenton Saunders (UCLA)

present), Emily Parker, Ph.D. (2014-present), Azadeh Hemati, M.S. (2015-2017), Kim Duong, Ph.D. (2016-present)

4) UCI Undergraduate Student Mentor: Ava Moussavi-Aghdam, B.S. (2014-2015)