

Scott Coffin, Ph.D.

Curriculum Vitae

EDUCATION

PhD, Environmental Toxicology, University of California, Riverside, Riverside, CA, 2018
Dissertation Title: "Plastic as a Vector for Pollutants in Estuarine and Marine Environments"

BS, Chemistry, Spanish Minor, Honors, University of Wyoming, Laramie, WY, 2013

National Student Exchange - University of Puerto Rico, Mayaguez, Fall 2013

National Student Exchange - University of Massachusetts, Amherst, Fall 2011

Grinnell College; Grinnell, IA, Fall 2009 - Spring 2010

WORK HISTORY

Professional Experience

- Research Scientist III (Chemical Sciences), State Water Resources Control Board, Sacramento, CA, 2019-Present
- Environmental Scientist (Range C), State Water Resources Control Board, Sacramento, CA, 2019
- Paid Intern, United States Senate, Senator Mike Enzi (WY), Washington, D.C., 2014
- International Outdoor Guide, Wilderness Adventures, Jackson, WY, 2013-2014

Academic Experience

- Graduate Student Researcher, University of California, Riverside, Riverside, CA 2014-2018
- Teacher's Assistant, Introduction to Environmental Science, University of California, Riverside, Riverside CA 2015-2016
- Academic Tutor, General Chemistry, University of Wyoming, Laramie, WY 2010-2011

Research Fellowships

- National Science Foundation Integrated Graduate Education and Research Traineeship Fellow, University of California, Riverside, Riverside CA 2017-2018
- Chancellor's Distinguished Fellow, University of California, Riverside, Riverside CA 2014-2015
- National Science Foundation Established Program to Stimulate Competitive Research Grant Recipient, University of Wyoming, Laramie, WY 2012-2013

HONORS AND AWARDS

40 under 40. University of California, Riverside. Spring 2022

Recognized as one of 40 remarkable alumni under the age of 40 from the University of California, Riverside. <https://news.ucr.edu/ucr-magazine/spring-2022/40-under-40/list>

Best Mission Concept. NASA Covid19 Space Apps Challenge, 2020

Global hackathon sanctioned by NASA to develop innovative solutions to global

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issues related to the Covid-19 pandemic using space data, science and technology. “Shelter in Space” project awarded Best Mission Concept out of 1,422 project submissions by a special committee.

First Place: “Water’s Impact on People”; Audience Choice Awards. American Chemical Society Environmental Film competition. San Diego, California, 2019. Documentary: “Getting to Know H2O.” <https://gluckprogram.ucr.edu/glucktv-steam-channel>

Fellow; National Science Foundation Integrated Graduate Education and Research Traineeship. 2018.

Best Contribution; Microplastics 2018, Ascona, Switzerland, November 2018
Nominations for this honor are made by a special committee. The Award is given to the best contribution to the field at the Microplastics 2018 conference.

Dean’s list, University of Wyoming, Laramie, WY 2013
This Award is made to undergraduate students who have a grade point average of 3.4 or greater.

Eagle Scout Award, Boy Scouts of America, 2008
This is the highest achievement attainable in the Boy Scouts of America.

PUBLICATIONS

Scott Coffin. “The emergence of microplastics: charting the path from research to regulations.” *Materials Circular Economy*. In Press.

Scott Coffin, Win Cowger, Albert Koelmans, Leah Thornton Hampton. “Disentangling the complex relationship between microplastic effects and traits using machine learning”, *Microplastics and Nanoplastics*. In Press.

Elko, N., Foster, D., Kleinheinz, G., Raubenheimer, B., Brander, S., Kinzelman, J., Kritzer, J.P., Munroe, D., Storlazzi, C., Sutula, M., Mercer, A., **Coffin, S.**, Fraioli, C., Ginger, L., Morrison, E., Parent-Doliner, G., Akan, C., Canestrelli, A., DiBenedetto, M., Lang, J., and Simm, J., 2021. “Human and Ecosystem Health in Coastal Systems”, *Shore & Beach*, 90(1), pg 64-91. <http://doi.org/10.34237/1009018>

Leah M. Thornton Hampton, Heili Lowmana, **Scott Coffin**, Emily Darin, Hannah De Frond, Ludovic Hermabessiere, Ezra Miller, Vera N. de Ruijter, Andrea Faltynkova, Syd Kotar, Laura Monclús, Samreen Siddiqui, Johannes Völker, Susanne Brander, Albert A. Koelmans, Chelsea M. Rochman, Martin Wagner, Alvine C. Mehinto. “A Living Tool for the Continued Exploration of Microplastic Toxicity”, *Microplastics and Nanoplastics*. In Press.

Scott Coffin, Hans Bouwmeester, Susanne Brander, Pauliina Damdimopoulou, Todd Gouin, Ludovic Hermabessiere, Elaine Khan, Albert A. Koelmans, Christine L. Lemieux, Katja Teerds, Martin Wagner, Stephen B. Weisberg, Stephanie Wright. “Development and application of a health-based framework for informing regulatory action in relation to

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exposure of microplastic particles in California drinking water”, *Microplastics and Nanoplastics*. In Press.

Simona Balan, Gretta Goldenman, Ann Blake, Xenia Trier, Martin Scheringer, Topher Buck, David Rist, Chris Leonetti, Saskia Van Bergen, **Scott Coffin**. “The Glasgow Statement on Chemicals in a Changing Climate”, In Press.

Marcus Eriksen, Win Cowger, Lisa Erdle, **Scott Coffin**, Patricia Villarrubia-Gómez, Charles J. Moore, Edwin Carpenter, Robert H. Day, Martin Thiel, Chris Wilcox. “A growing smog of more than 600 trillion plastic particles is afloat in the world’s oceans – urgent solutions required.” In Press.

Leah M. Thornton Hampton, Susanne Brander, **Scott Coffin**, Matthew Cole, Ludovic Hermabessiere, Albert A. Koelmans, Chelsea M. Rochman. “Characterizing microplastic hazards: Which concentration metrics and particle characteristics are most informative for understanding toxicity in aquatic organisms?”, *Microplastics and Nanoplastics*. In press.

Leah M. Thornton Hampton, Hans Bouwmeester, Susanne Brander, **Scott Coffin**, Matthew Cole, Ludovic Hermabessiere, Alvine C. Mehinto, Ezra Miller, Chelsea M. Rochman, Stephen B. Weisberg. “Research Recommendations to Better Understand the Potential Health Impacts of Microplastics to Humans and Aquatic Ecosystems”, *Microplastics and Nanoplastics*. In Press.

Alvine C. Mehinto, **Scott Coffin**, Albert A. Koelmans, Susanne M. Brander, Martin Wagner, Leah M. Thornton Hampton, G. Allen Burton Jr, Ezra Miller, Todd Gouin, Stephen B. Weisberg, Chelsea M. Rochman. “Risk-Based Management Framework for Microplastics in Aquatic Ecosystems”, *Microplastics and Nanoplastics*. In press.

Grønnestad, Randi, Daniel Schlenk, Åse Krøkje, Veerle L.B. Jaspers, Bjørn Munro Jenssen, **Scott Coffin**, Luísa Becker Bertotto, Marissa Giroux, Jan L. Lyche, and Augustine Arukwe. 2020. “Alteration of Neuro-Dopamine and Steroid Hormone Homeostasis in Wild Bank Voles in Relation to Tissue Concentrations of PFAS at a Nordic Skiing Area.” *Science of The Total Environment*, November, 143745.
<https://doi.org/10.1016/j.scitotenv.2020.143745>.

Coffin, Scott, Holly Wyer, and J.C. Leapman. 2020. “Addressing the environmental and health impacts of microplastics requires open collaboration between diverse sectors.” *PLOS Biology*.

Wang, Jie, **Scott Coffin**, Daniel Schlenk, and Jay Gan. 2020. “Accumulation of HOCs via Precontaminated Microplastics by Earthworm *Eisenia Fetida* in Soil.” *Environmental Science & Technology*, August, acs.est.0c02922.
<https://doi.org/10.1021/acs.est.0c02922>.

Wang, Jie, **Scott Coffin**, Chengliang Sun, Daniel Schlenk, and Jay Gan. 2019. “Negligible Effects of Microplastics on Animal Fitness and HOC Bioaccumulation in Earthworm

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- Eisenia Fetida in Soil." *Environmental Pollution* 249 (June): 776–84.
<https://doi.org/10.1016/j.envpol.2019.03.102>.
- Coffin, Scott**, Jason T. Magnuson, Sara M.F. Vliet, David C. Volz, and Daniel Schlenk. 2020. "Effects of Short-Term Exposure to Environmentally-Relevant Concentrations of Benzo(a)Pyrene-Sorbed Polystyrene to White Seabass (*Atractoscion Nobilis*)☆." *Environmental Pollution* 263 (August): 114617.
<https://doi.org/10.1016/j.envpol.2020.114617>.
- Wyer, Holly, Darrin Polhemus, Shelly Moore, Steve Weisberg, **Scott Coffin**, and Chelsea Rochman. 2020. "EXPRESS: Steps Scientists Can Take to Inform Aquatic Microplastics Management: A Perspective Informed by the California Experience." *Applied Spectroscopy*, July, 000370282094603. <https://doi.org/10.1177/0003702820946033>.
- Li, Shuying, Yao Jiang, Qianqian Sun, **Scott Coffin**, Lili Chen, Kun Qiao, Wenjun Gui, and Guonian Zhu. "Tebuconazole induced oxidative stress related hepatotoxicity in adult and larval zebrafish (*Danio rerio*)." *Chemosphere* 241 (2020): 125129.
- Coffin, Scott**, Guo-Yong Huang, Ilkeun Lee, and Daniel Schlenk. 2019. "Fish and Seabird Gut Conditions Enhance Desorption of Estrogenic Chemicals from Commonly-Ingested Plastic Items." *Environmental Science & Technology* 53 (8): 4588–99.
<https://doi.org/10.1021/acs.est.8b07140>.
- Coffin, Scott**, Ilkeun Lee, Jay Gan, and Daniel Schlenk. 2019. "Simulated Digestion of Polystyrene Foam Enhances Desorption of Diethylhexyl Phthalate (DEHP) and In Vitro Estrogenic Activity in a Size-Dependent Manner." *Environmental Pollution* 246 (March): 452–62. <https://doi.org/10.1016/j.envpol.2018.12.011>.
- Wang, Jie, **Scott Coffin**, Chengliang Sun, Daniel Schlenk, and Jay Gan. 2019. "Negligible Effects of Microplastics on Animal Fitness and HOC Bioaccumulation in Earthworm *Eisenia Fetida* in Soil." *Environmental Pollution* 249 (June): 776–84.
<https://doi.org/10.1016/j.envpol.2019.03.102>.
- Li, Shuying, Kun Qiao, Yao Jiang, Qiong Wu, **Scott Coffin**, Wenjun Gui, and Guonian Zhu. 2019. "Disruptive Effects of Two Organotin Pesticides on the Thyroid Signaling Pathway in *Xenopus Laevis* during Metamorphosis." *Science of The Total Environment* 697: 134140.
- Li, Shuying, Qiong Wu, Qianqian Sun, **Scott Coffin**, Wenjun Gui, and Guonian Zhu. 2019. "Parental Exposure to Tebuconazole Causes Thyroid Endocrine Disruption in Zebrafish and Developmental Toxicity in Offspring." *Aquatic Toxicology* 211 (June): 116–23.
<https://doi.org/10.1016/j.aquatox.2019.04.002>.
- Coffin, Scott**, Stacia Dudley, Allison Taylor, Douglas Wolf, Jie Wang, Ilkeun Lee, and Daniel Schlenk. 2018. "Comparisons of Analytical Chemistry and Biological Activities of Extracts from North Pacific Gyre Plastics with UV-Treated and Untreated Plastics Using In Vitro and In Vivo Models." *Environment International* 121 (December): 942–54.
<https://doi.org/10.1016/j.envint.2018.10.012>.

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- Moreira, Lucas Buruaem, Graciel Diamante, Marissa Giroux, **Scott Coffin**, Elvis Genbo Xu, Denis Moledo de Souza Abessa, and Daniel Schlenk. 2018. "Impacts of Salinity and Temperature on the Thyroidogenic Effects of the Biocide Diuron in *Menidia Beryllina*." *Environmental Science & Technology* 52 (5): 3146–55.
- Huang, Ying, Yiqing Liu, Minghao Kong, Elvis Genbo Xu, **Scott Coffin**, Daniel Schlenk, and Dionysios D Dionysiou. 2018. "Efficient Degradation of Cytotoxic Contaminants of Emerging Concern by UV/H₂O₂." *Environmental Science: Water Research & Technology* 4 (9): 1272–81.
- Huang, Ying, Minghao Kong, Danielle Westerman, Elvis Genbo Xu, **Scott Coffin**, Kristin H. Cochran, Yiqing Liu, Susan D. Richardson, Daniel Schlenk, and Dionysios D. Dionysiou. 2018. "Effects of HCO₃[–] on Degradation of Toxic Contaminants of Emerging Concern by UV/NO₃[–]." *Environmental Science & Technology* 52 (21): 12697–707.
<https://doi.org/10.1021/acs.est.8b04383>.
- Huang, Ying, Minghao Kong, Danielle Westerman, Elvis Genbo Xu, **Scott Coffin**, Kristin H. Cochran, Yiqing Liu, Susan D. Richardson, Daniel Schlenk, and Dionysios D. Dionysiou. 2018. "Effects of HCO₃[–] on Degradation of Toxic Contaminants of Emerging Concern by UV/NO₃[–]." *Environmental Science & Technology* 52 (21): 12697–707.
<https://doi.org/10.1021/acs.est.8b04383>.
- Coffin, Scott**, Jay Gan, and Daniel Schlenk. 2017. "Comparisons of Field and Laboratory Estimates of Risk of DDTs from Contaminated Sediments to Humans That Consume Fish in Palos Verdes, California, USA." *Science of the Total Environment* 601: 1139–46.

CONFERENCE PRESENTATIONS

- Scott Coffin (Keynote speaker). "Tackling Microplastics Risks through Science, Policy and Regulations." *American College of Toxicology Annual Symposium*. November 2022. Denver, Colorado.
- Scott Coffin. "Microplastics Research and Regulations." *California Lake Management Society Annual Meeting*. October 2022. Oakland, California.
- Scott Coffin (Keynote speaker). "California's Path to Microplastics Pollution Monitoring and Regulation." *Macro to Microplastics in Narragansett Bay*. October 2022. Bristol, Rhode Island.
- Scott Coffin (Keynote speaker). "California's Efforts to Address PFAS Contamination in Water Resources." *International Cleanup Conference*. September 2022. Adelaide, Australia.
- Scott Coffin (Keynote speaker). "Assessing and Managing Risks of Microplastics in Ecosystems and Drinking Water." *International Cleanup Conference*. September 2022. Adelaide, Australia.
- Scott Coffin. "Risk Characterization of Microplastics in San Francisco Bay, California." *Southern California Academy of Sciences Annual Symposium*. May 2022. Fullerton, California.

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Scott Coffin (Keynote speaker). "Assessing and Managing Risks of Microplastics in Ecosystems and Drinking Water". *Emerging Contaminants in the Environment Conference*. April 2022. Virtual.

Scott Coffin. "Assessing and Managing Risks of Microplastics in Ecosystems and Drinking Water." *American Water Works Association – California/Nevada Section Annual Spring Conference*. April 2022. Anaheim, California.

Scott Coffin, Rick Zimmer. "Microplastics - Regulations, Toxicology & Testing for a new emerging contaminant." *WateReuse*. March 2022. San Antonio, Texas.

Scott Coffin. "Microplastics - Regulations, Toxicology & Testing for a new emerging contaminant". *Pacific Water Conference*. February 2022. Virtual.

Scott Coffin. "Management of Microplastics in Ecosystems and Drinking Water in California". *Asia-Pacific Economic Co-operation Workshop on Nanoplastics in Marine Debris*. December 2021. Virtual.

Scott Coffin. "Policy and regulatory strategies for managing human risks of microplastics: a California perspective". *Plastics and microplastics in food and the impact on human health; National Academies of Sciences, Engineering, and Medicine*. December 2021. Virtual.

Scott Coffin. "What's the deal with microplastics?". *Los Angeles County Bar Association Environmental Section Fall Symposium*. November 2021. Virtual.

Scott Coffin. "Leveraging Big Data to Predict Microplastics Toxicity for Aquatic Organisms". *SETAC North America*. November 2021. Virtual.

Scott Coffin. "Assessing Risks of Microplastics in Drinking Water for Humans: Insights From California's Expert Workshop". *SETAC North America*. November 2021. Virtual.

Scott Coffin. "Microplastics Contamination in Terrestrial Environments". *California Bioresources Alliance*. November 2021. Virtual.

Scott Coffin. "Microplastics: what's the big deal, and what is California doing about it?". *California Clean Boating Network Meeting*. November 2021. Virtual.

Scott Coffin. "Microplastics as an Emerging Contaminant Suite – A California Waterboards Perspective". *Green Ribbon Science Panel Microplastics Research and Policy Meeting*. November 2021. Virtual.

Scott Coffin (keynote speaker). "Preliminary Findings of an Assessment of the Human Health Impacts of Microplastics in Drinking Water." *Water All-Star Talk. American Water Works Association California-Nevada Section Annual Fall Conference 2021*. October 2021. Virtual.

Scott Coffin. "Research and Actions on Microplastics in Drinking Water by the California State Water Resources Control Board." *Microplastics in the Potomac River Basin: Drinking Water & Source Water Protection Perspectives*. October 2021. Virtual.

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Scott Coffin. "Preliminary Comparison of Ecotoxicological Thresholds to Microplastics Occurrence Data in San Francisco Bay." *San Francisco Estuary Institute RMP Microplastic Workgroup*. September 2021. Virtual.

Scott Coffin. "Microplastics Health Workgroup Findings." *Federal-State Toxicology and Risk Analysis Committee (FSTRAC) Webinar*. September, 2021. Virtual.

Scott Coffin. "Adoption of standard methods for microplastics measurement in California's regulatory programs." *Challenges of Microplastic Analysis – Bridging state of the art and policy needs*. European Commission. September, 2021. Virtual.

Scott Coffin. "Microplastics – The Latest Contaminant of Concern." *Eurofins*. August 2021.

Scott Coffin. "Contaminants of Emerging Concern Series- Microplastics." *Water Education Seminar 2021, American Water Works Association California-Nevada Section*. August, 2021. Virtual.

Scott Coffin. "State Water Board Research and Regulations on Microplastics in Drinking Water." *National Environmental Monitoring Conference*. August, 2021. Virtual.

Scott Coffin. "What am I drinking? Microplastics impacts on human health." *North Carolina Coastal Federation Virtual Microplastics Forum*. July, 2021. Virtual.

Scott Coffin. "Meeting the Challenge of Microplastic Management to Protect Human Health and the Environment." *Renewable Natural Resources Foundation Round Table*. July, 2021. Virtual.

Scott Coffin. "Untangling microplastics toxicity with an interactive data exploration application." *Water Data Science Symposium*. June, 2021. Virtual.

Scott Coffin. "Leveraging Big Data to Predict Microplastics Toxicity for Aquatic Organisms." *Water Data Science Symposium*. June, 2021. Virtual.

Scott Coffin. "Key Ingredients to Effective Science Communication: Focus on Microplastics Science and Policy." *Online Workshop on Microplastic Research*. ETH Zurich. June, 2021.

Scott Coffin. "California's Path Towards Regulating Microplastics in Water." *University of Toronto Virtual Technology Transfer Day*. June, 2021.

Scott Coffin. "California's Path Towards Assessing Risks and Developing Regulations for Microplastics." *Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry 2021 Annual Meeting*. April, 2021. Virtual.

Scott Coffin. "California's Regulatory Investigation of Microplastics in Drinking Water." *Groundwater Resources Association of California*. March, 2021. Virtual.

Scott Coffin. "Implementation of Senate Bill 1422 - Microplastics in Drinking Water." *California Assembly Environmental Safety And Toxic Materials Committee Information Hearing: "Microplastics in our Water and Environment: Understanding a Growing Pollution Source."* February, 2021. Virtual.

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Scott Coffin and Charles Wong. "Microplastics: Characterization, Identification, Monitoring, and Accreditation." *Forum on Environmental Accreditation*. January, 2021. Virtual.

Scott Coffin. "Science to Policy: California's Path Towards Microplastics Regulations: US Coastal Research Group Human & Ecosystem Health Workshop. January, 2021. Virtual.

Scott Coffin. "Microplastics in drinking water: California's path towards assessing risks and developing regulations." Society for Risk Analysis Annual Meeting. December, 2020. Virtual.

Scott Coffin. "California Water Board Perspective." *Human and Ecological Health Effects of Microplastics in Water: Characterizing Current Knowledge and Identifying Research Priorities, Southern California Coastal Water Research Project*. 2020. Virtual.

Scott Coffin. "California Division of Drinking Water Update on Microplastics." *American Water Works Association California-Nevada Section Annual Fall Conference*. 2020. Virtual.

Scott Coffin, Wesley Smith. "Human Exposure to Microplastics from Food and Water." *International Society of Exposure Science*. 2020. Virtual.

Scott Coffin. "Microplastics in Drinking Water: California' Regulatory Actions". *National Environmental Monitoring Conference*, 2020. Virtual.

Scott Coffin, Shahla Farahnak, Dan Kippen. "Regulatory Update on PFAS and Microplastics." *Los Angeles County Bar Association*, 2020. Los Angeles, CA.

Scott Coffin. "Microplastics Regulatory Efforts." *Forum on Environmental Accreditation*, 2020. Santa Ana, CA.

Scott Coffin, Shahla Farahnak. "California Water Board's Actions on Per-and Polyfluoroalkyl Substances (PFAS)." *Groundwater Resource Association*, 2019. Sacramento, CA.

Scott Coffin. "Plastic as a Vector for Pollutants in Estuarine and Marine Environments." *Impacts of Microplastics in the Urban Environment* (2019). Rutgers University, New Brunswick, NJ. *Expert Panelist*.

Scott Coffin. "Analytical and *in vitro* estimates of estrogenicity from simulated digests of plastic items." *Microplastics 2018*, Ascona, Switzerland. *Best Contribution Award*.

Scott Coffin. "Characterization of Estrogenic Compounds from Simulated Digests of Plastic Items." *Southern California Chapter of Society of Toxicology and Chemistry Conference*, April, 2018. Platform Presentation.

Scott Coffin. "Comparisons of biological activities of extracts from North Pacific Gyre Plastics with UV-treated and untreated materials using In Vitro and In Vivo Model." *Pollutant Responses in Marine Organisms*, Matsuyama, Japan, June, 2017. Poster Presentation.

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Scott Coffin. "Biological and chemical activities of extracts from plastics collected from the North Pacific Gyre and plastics treated with UV-light." *Southern California Society of Toxicology and Chemistry*, April 2017, Dana Point, CA. Platform Presentation.

Scott Coffin. "Use of solid phase microextraction and laboratory models to estimate risk of DDTs from consumption of fish from contaminated sediments in Palos Verdes California." *Superfund Research Program*, San Juan Puerto Rico, November, 2015. Poster Presentation

Scott Coffin. "Understanding the Ecological effects of North Pacific Gyre Plastics using *In Vitro* Models." *Society of Environmental Toxicology and Chemistry*, Salt Lake City, November 1-5, 2015. Poster Presentation

ARTICLES AND TECHNICAL REPORTS

Interagency Marine Debris Coordinating Committee (Carlie Herring, Sam Athey, Anna Posacka, Rob Hale, Scott Coffin, Sherri Mason, Diana Lin, Steph Karba, Roland Geyer). "Report on Microfiber Pollution. 2022 Report to Congress." August 8, 2022.
<https://marinedebris.noaa.gov/interagency-marine-debris-coordinating-committee-reports/report-microfiber-pollution>

Coffin, Scott. "Accounting for Plastic's True Costs." *The Debate*. March 2022.
<https://www.eli.org/sites/default/files/files-pdf/tef-march-april-2022-debate.pdf>

SOS 2.0 Microfiber Report to U.S. Congress. *MateRevolve*. Report co-author and served on Expert Advisory Committee. 2021.

Coffin, Scott. Staff Report for Proposed Definition of 'Microplastics in Drinking Water.' June 3, 2020. *State Water Resources Control Board*.
https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/docs/stffrprt_jun3.pdf

Hayman, Nicholas and Coffin, Scott. Per- and polyfluoroalkyl substances (PFAS): Overview and Recent California Actions. Feature Article. *SoCal SETAC News* Volume 27, Number 2. 2020.

Martindale, Scott; Weisberg, Stephen; Coffin, Scott. "Status of Legislation and Regulatory Drivers for Microplastics in California." *HORIBA Readout*; No. 54, May 2020.

Coffin, Scott. "Plastic as a Vector for Pollutants in Estuarine and Marine Environments." *Doctoral dissertation, University of California, Riverside* (2018).

COMMUNITY SERVICE and SCIENCE COMMUNICATION

Keynote Speaker and Session Organizer

Microplastics Workshop for Early Career Researchers: Best Practices and Expert Insights. COST. Athens, Greece. June 2022

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Podcast Interviewee

EnviroChat. March 2022.

Expert Panelist

Science to Policy Class. University of California, Riverside. November 2021.

Interviewee

KQED and PBS. Microplastics. November 2021.

Guest Lecturer

Palomar College. Water Technology Education Topics. November 2021.

Interviewee

Spectrum News Los Angeles. October 2021.

Podcast Interviewee

Make Peas, not Beef. August, 2021.

Guest Lecturer

University of California. Environmental Health and Development Course. July, 2021.

Public Speaker

Rotary International, Wyoming Chapter. July, 2021

Interviewee

Los Angeles Times. "Opinion: Microplastics are getting into our bodies. We need to understand what that means." July, 2021.

Podcast Discussion Facilitator

5 Gyres. "World Oceans Day Science 'State of the Union.'" June, 2021.

Project Adviser

University of California, Berkeley. SDG Undergraduate Research Group. 2021.

Guest Lecturer

University of California, Berkeley School of Public Health. January, 2021.

Interviewee

"Endocrine Disruptors and Plastics." *The Zero Waste Countdown Podcast*. October 2020.

Guest Speaker

Scott Coffin, Susanne Brander, Anastasia Telesetsky. "Microplastics: Science and Policy." *University of Oregon School of Law*. September 2020

Guest Speaker

"Microplastics: Human and Ecological Impacts." *Rotary International, Cheyenne Chapter*. September 2020.

Guest Speaker

"Microplastics in Drinking Water: California's Investigations." *Microplastics Awareness Day, County of Santa Clara*. September 2020.

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Guest Lecturer

"Microplastics in Drinking Water: California's Pioneering Regulatory Investigation."
Biological Oceanography Seminar Series. *University of Rhode Island*. September 2020.

Guest Speaker

"Microplastics Hit Home: Human Exposure, Health Effects, and Inland Impacts." *Inland Ocean Coalition, Wyoming Chapter*, Virtual, August 2020.

Interviewee

"Plasticast Episode 3: Dr. Scott Coffin." *Pacific Northwest Consortium on Plastics*.

Guest Speaker

Sacramento Science Distilled, Sacramento, CA, January 2020.

Guest Lecturer

University of Redlands, Redlands, CA, November 2019.

Presenter

Green Jobs Shadowing. California Center for Civic Participation, Sacramento, CA, November 2019

Presenter

America Recycles Day at California EPA, Sacramento, CA, November, 2019

Educational Documentary Producer

"Getting to Know H2O", Riverside, CA, 2018-2019.

Presenter

Earth Day Festival, University of California, Riverside, Riverside, CA, 2018.

Conference Organizer

SoCAL SETAC/Earth Day Event, Whittier, CA, 2018.

Organizer and Publicity Manager

Earth Day Festival, University of California, Riverside, Riverside, CA, 2018.

Test Writer

Science Olympiad "Potions and Poisons". Ramona High School, Riverside, CA, 2018.

Organizer

California Public Interest Research Group, UCR chapter. 2014-2016

Presenter

"Environmental Health Day," Nature Center, Riverside, CA, 2016

Graduate Student Peer Mentor

University of California, Riverside, Riverside, CA, 2016-2018

Science Fair Judge

St. Catherine of Alexandria, Riverside, CA, 2016

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Test Writer, Proctor

Science Olympiad “Green Generation”, Ramona High School, Riverside, CA, 2016.

Presenter

Annual Science Night, Stork Elementary School, Rancho Cucamonga, CA, 2016

Career Speaker

Amino Ralph Bunche Charter High, Los Angeles, CA, 2015

Presenter

“Environmental Health Day”, Riverside, CA, 2014

PROFESSIONAL MEMBERSHIPS AND APPOINTMENTS

Chair. CA-NV AWWA Research Committee. 2022-2024.

Board Member. Moore Institute for Plastic Pollution Research. 2021 – current.

PAC Member. WRF 5155: "Developing Strategic Consumer Messaging for Microplastics in Drinking Water Supplies." *Water Research Foundation*. 2021 – current.

Planning Committee. Society of Environmental Toxicology and Chemistry Global Microplastics Workshop Planning Committee. 2021- current.

Committee Co-Chair. California Water Quality Monitoring Council Microplastics Monitoring Workgroup Subcommittee. 2021 – current.

Review Editor. *Frontiers in Water and Human Health*. Research Topic: “Alternatives to petroleum-based plastics as a potential solution to the global plastic pollution crisis in marine environments: Do they provide sustainable solutions?” January 2022 – current.

Review Editor. *Frontiers in Water and Human Health*. Research Topic: “Microplastics in Water and Potential Impacts on Human Health.” May 2021 - current.

Vice Chair. CA-NV AWWA Research Committee. 2020-2021.

Writer. USCRP Human and Ecosystem Health in Coastal Systems report. 2021.

Grant Committee Member. Plastics Science for a Cleaner Future Selection Committee, Natural Sciences and Engineering Research Council of Canada. 2020-2021.

PAC Member. WRF 5088, Defining Exposures of Microplastics/Fibers (MPs) in Treated Waters and Wastewaters: Occurrence, Monitoring, and Management Strategies, Water Research Foundation. 2020-2021.

Member. Microplastics Grant Selection Committee, California State University Council on Ocean Affairs, Science & Technology (COAST). 2019-2020

Member. Microplastics Policy Advisory Committee; Ocean Science Trust. 2020.

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Student Representative. Southern California Society of Toxicology and Chemistry. 2017-2019.

TRAININGS AND CERTIFICATES

ABT Narrative Training with Randy Olson. August – September 2021.

Experiential Learning with MateRevolve & Call of the Sea. San Francisco Bay. May 2021.

ArcGIS Training, University of California, Davis, 2020

Yoga Instructor, 200-hour certification, Western Yoga College, 2018

SCUBA certification, Advanced Open Water, PADI, 2014

SPECIAL PROJECTS

Founder. Plastiverse.org

Lead Developer. Toxicity of Microplastics Explorer Application (ToMEx).

Data Scientist. Economic Impacts to Water Systems from COVID-19 (2020). State Water Resources Control Board.

Contract Manager. Microplastics in Drinking Water Method Development and Health Effects Workshop. Contractor: Southern California Coastal Water Research Project. State Water Resources Control Board.

NASA Covid19 Space Apps Challenge (2020). Virtual. Participant. *Shelter in Space.*

PFAS Datathon (2019). Sacramento, CA. *Organizer and facilitator.*

Southern California Society of Toxicology and Chemistry (2018). Los Angeles, CA. *Organizer.*

LANGUAGES

English: Native Language

Spanish: Fluent