Scott Coffin, Ph.D.

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Employment

Research Scientist III (Chemical Sciences)

September, 2019 – Present

State Water Resources Control Board; Sacramento, CA

Environmental Scientist (Range C)

January 2019 – September, 2019

State Water Resources Control Board; Sacramento, CA

Graduate Student Researcher

September 2014 – December 2018

University of California, Riverside; Riverside, CA

Paid Intern

January – June 2014

United States Senate; Senator Mike Enzi (WY); Washington, D.C.

International Outdoor Guide

Summers 2013, 2014

Wilderness Adventures; Jackson, WY

Education

Ph.D. Environmental Toxicology

2014 - December 2018

University of California, Riverside; Riverside, CA

National Science Foundation Integrated Graduate Education and Research

Traineeship Fellow

Chancellor's Distinguished Fellow

B.S. Chemistry, Spanish Minor, Honors

August 2010- December 2013

University of Wyoming; Laramie, WY

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 to Spring 2010

Skills and Expertise

Policy/Regulations: Lead technical staff on SB 1422: Microplastics in Drinking Water.

Risk Assessment: Human health and ecotoxicological stochastic risk assessments.

Analytical Chemistry: Gas/liquid chromatography, mass spectrometry, fluorescence.

Bioassays: In vitro bioanalytical tools and in vivo genetic and biochemical analysis

Statistical Data Analysis: Comfortable using Graphpad, MS Excel, Minitab, R.

Communication: Native English speaker, fluent in written and spoken Spanish.

Reviewer: Peer reviewer for over 10 journal publications.

Selected Publications

- 1. **Coffin, S.,** Magnuson, J., Vliet, S., Volz, D., Schlenk, D. "Effects of short-term exposure to environmentally-relevant concentrations of benzo(a)pyrene-sorbed polystyrene to White seabass (*Atractoscion nobilis*). *Environmental Pollution* (2020) 263:114617.
- 2. **Coffin, S.,** Huang, G., Lee, I., Schlenk, D. "Fish and Seabird Gut Conditions Enhance Desorption of Estrogenic Chemicals from Commonly-Ingested Plastic Items." *Environmental science & technology* (2019) 53: 4588-4599.
- 3. **Coffin, S.**, Lee, I., Gan, J., Schlenk, D. Simulated digestion of polystyrene foam enhances desorption of diethylhexyl phthalate (DEHP) and In vitro estrogenic activity in a size-dependent manner. *Environmental pollution*, (2019); 246: 452-462.

- 4. **Coffin, S.**, Dudley, S., Taylor, A., Wolf, D., Wang, J., Lee, I., Schlenk, D. "Comparisons of Biological Activities of Extracts from North Pacific Gyre Plastics with UV-treated and Untreated Plastics using *In Vitro* and *in vivo* Models." *Environment International* (2018); 121:942-954.
- 5. **Coffin, S.** Gan, J., Schlenk, D. "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* (2017); 601:1139-1146.
- 6. **Coffin, S.** "Plastic as a Vector for Pollutants in Estuarine and Marine Environments." *Doctoral dissertation, University of California, Riverside* (2018).
- 7. Wang, J., Coffin, S., Sun, C., Schlenk, D., Gan, J. Negligible effects of microplastics on animal fitness and HOC bioaccumulation in earthworm *Eisenia fetida* in soil. *Environmental Pollution* (2019) 249: 776-784.
- 8. Moreira, L.B., Diamante, G., Giroux, M., Coffin, S., Xu, E.G., Moledo De Souza Abessa, D., Schlenk, D. "Impacts of Salinity and Temperature on the Thyroidogenic Effects of the Biocide Diuron in Menidia beryllina." *Environmental Science and Technology* (2018); 52: 3146–3155.
- 9. Huang, Y., Liu, Y., Coffin, S., Xu, G., Schlenk, D., Dionysiou, D. "Efficient degradation of cytotoxic contaminants of emerging concern by UV/H₂O₂." *Environmental Science: Water Research & Technology* (2018); 4: 1272-1281.
- 10. Huang, Y., Kong, M., Coffin, S., Cochran, K., Zhu, N., Schlenk, D., Richardson, S., Dionysiou, D. "Effects of HCO on Degradation of Toxic Contaminants of Emerging Concern by IV/NO." *Environmental Science and Technology* (2018); 52(21):12697-707.

Selected Conference Presentations

- "Microplastics Regulatory Efforts." Forum on Environmental Accreditation (2020). Newport Beach, CA. Presenter.
- "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*.
- "Analytical and *in vitro* estimates of estrogenicity from simulated digests of plastic items." *Microplastics 2018*, Ascona, Switzerland. *Best Contribution Award*.
- "Characterization of Estrogenic Compounds from Simulated Digests of Plastic Items." *Southern California Society of Toxicology and Chemistry* (2018). Los Angeles, CA. *Organizer*.

Selected Science Outreach Activities and Projects

Producer. Getting to Know H2O. Environmental documentary. Riverside, Ca. 2018-2019.

Organizer and Presenter. Earth Day Festival. University of Riverside, CA. April 2018.

Organizer and Presenter. SoCal SETAC Earth Day Event, Whittier CA. April 2018.

Organizer and Board Member. SoCal SETAC Annual Meeting, CA. 2018 & 2019.

Presenter. Environmental Health Day, Nature Center, Riverside, CA. April 2016.

Graduate Student Peer Mentor. University of California, Riverside CA. 2016-2018.

Honors, Awards and Certifications

Eagle Scout Award; Boy Scouts of America, 2008.

Fellow; NSF Integrated Graduate Education and Research Traineeship.2018.

Best Contribution; Presentation at Microplastics 2018, Ascona, Switzerland.

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

SCUBA certification; Advanced Open Water, PADI, 2014.