

# Dr. Jayme Smith

Scientist

Biogeochemistry Department

Southern California Coastal Water Research Project

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## Education

Ph.D., biology, University of Southern California, Los Angeles, CA, 2018

B.S., biological sciences, Vanguard University of Southern California, Costa Mesa, CA, 2009

## Professional Experience

Scientist, Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA, 2019-present

Joint Postdoctoral Scientist, Southern California Coastal Water Research Project (SCCWRP) and University of Southern California, Costa Mesa, CA and Los Angeles, CA, 2018-2019

Graduate Research Assistant, University of Southern California, Los Angeles, CA, 2012-2018

Adjunct Laboratory Instructor, Vanguard University, Costa Mesa, CA, 2010-2012

Laboratory Assistant, Monarch Labs, Irvine, CA, 2010-2012

Instructor, Biola University Youth, La Mirada, CA, 2010-2011

## Honors and Awards

WiSE Travel Grant, USC, 2017

Turner Designs Student Travel Stipend Award, USC, 2017

WiSE Travel Grant, USC, 2013

Tyler Environmental Fellowship, USC, 2012

Summer Undergraduate Research Fellowship, VUSC, 2007

Vanguard University Honor Roll, VUSC, 2006-2009

Academic Lion I Scholarship, VUSC, 2006-2009

## Selected Presentations and Conference Proceedings

Smith, J., Howard, M.D.A, Kudela, R, McLaughlin, K., Caron, D.A., Roethler, M., Schultz, D., Hayashi, K, Robertson, G., Terriquez, L., Sakamoto, K., Renick, V., Phonsiri, V., Haggin, B., Larsen, C.D. Persistent Domoic Acid in the Sediments and Benthic Infauna in California. 10<sup>th</sup> U.S. Harmful Algal Bloom Symposium. Orange Beach, Alabama, USA. Nov 2019. (contributed talk)

Mehinto, A.C, Smith, J., Wenger, E., Howard, M.D.A, Linville, R., Stanton, B., Brooks, B.W., Sutula, M. Ecotoxicity of Cyanotoxins in Freshwater Habitats - A Systemic Review of the Literature. 10<sup>th</sup> U.S. Harmful Algal Bloom Symposium. Orange Beach, Alabama, USA. Nov 2019. (poster)

Eggleston, E. J., Smith, J., Ryan, S., Gichuki, J., Kennedy, K., Tyler, A., Meredith Howard, M.D.A., Caron, D.A. Determining the Trends and Drivers of CyanoHABs in Clear Lake. 10<sup>th</sup> U.S. Harmful Algal Bloom Symposium. Orange Beach, Alabama, USA. Nov 2019. (poster)

Smith, J. Examining Potential Triggers of Algal Blooms and Harmful Algae in the Southern California Bight Southern California Branch of the American Society for Microbiology Annual Meeting. 2019. La Jolla, CA. (invited presentation)

Smith, J., Connell, P., Evans, R.H, Gellene, A.G., Howard, M.D.A., Jones, B.H., Kaveggia, S., Palmer, L., Schnetzer, A., Seegers, B.N., Seubert, E. L., Tatters, A. O., and Caron, D.A. 2017. A decade and a half of *Pseudo-nitzschia* spp. and domoic acid along the coast of southern California. 9th Symposium on Harmful Algae, California, USA. Nov 2017. (contributed talk + poster)

Smith, J. 2017. Examining Potential Triggers of Toxic *Pseudo-nitzschia* Blooms in the Southern California Bight Region. USC Women in Science and Engineering Bytes Seminar, California, USA. Oct 2017. (invited talk)

Smith, J., A.G. Gellene, C. Cash, M. Dojiri, and D.A. Caron. 2017. A 'Natural' Experiment in Santa Monica Bay, California: Potential Changes in the Microbial Loop in Response to Anthropogenic Nutrient Input. Aquatic Sciences Meeting, Hawaii, USA. Feb 2017. (poster)

Smith, J. 2016. Coastal Anthropogenic Nutrient Input and Algal Blooms: A 'Natural' Experiment in Santa Monica Bay, California. USC Marine Biology and Biological Oceanography Department

Seminar, California, USA. Jan 2016. (invited talk)

Smith, J., A.G. Gellene, A. Booth, M. Dojiri, J.C. Ohlmann, A.J. Lucas, C. Cash, and D.A. Caron. 2015. Coastal Anthropogenic Nutrient Input and Harmful Algal Blooms: A 'Natural' Experiment in Santa Monica Bay, California. 8th Symposium on Harmful Algae, California, USA. Nov 2015. (contributed talk)

Caron, D.A., A.O. Tatters, A.G. Gellene, J. Smith, M.D.A Howard, C. Nagoda, and L. Busse. 2015. "Go West, Young Haptophyte": Fish Kills Attributable to *Prymnesium Parvum* Spread to Southern California. 8th Symposium on Harmful Algae, California, USA. Nov 2015. (contributed talk)

Ryan, J., J. Birch, H.A. Bowers, D.A. Caron, G. Doucette, A.G. Gellene, K. Hubbard, R. Kudela, R. Martin III, C. Mikulski, K. Negrey, C. Scholin, G.J. Smith, J. Smith, A. Woods. 2015. Ecological Dynamics in California HAB Hotspots: Eddy Incubation, Retention, and Subsurface Refugia. 8th Symposium on Harmful Algae, California, USA. Nov 2015. (contributed talk)

Smith, J. 2014. Dynamics of *Pseudo-nitzschia* in the Southern California Bight - a two-year comparison. USC Marine Biology and Biological Oceanography Department Seminar, California, USA. Nov 2014. (invited talk)

Yuen, A.D., J. Smith, S.K. Hu and D.A. Caron. 2014. Competitive Interactions of The Toxic Microalga *Pseudo-nitzschia* With Co-Occuring Microalgal Species. WCBSURC, California, USA, April 2014. (contributed talk)

Smith, J, A.G. Gellene, P. Connell, V. Campbell, E.L. Seubert, D.A. Caron. 2013. The influence of nutrient and light perturbations on natural phytoplankton assemblages containing the toxin-producing diatom *Pseudo-nitzschia*. 7th Symposium on Harmful Algae, Florida, USA. Oct 2013. (poster)

## Journal Articles

Smith, J., A. Lie, E.L. Seubert, N. Crowley, G. Robertson, D.A. Caron. 2019. Co-occurring Dissolved Algal Toxins Observed at Multiple Coastal Sites in Southern California via Solid Phase Adsorption Toxin Tracking. *Toxicon* DOI:10.1016/j.toxicon.2019.10.005.

Smith, J., P. Connell, R.H. Evans, A.G. Gellene, M.D.A. Howard, B.H. Jones, S. Kaveggia, L. Palmer, A. Schnetzer, B.N. Seegers, E.L. Seubert, A.O. Tatters, D.A. Caron. 2018. A decade and a half of *Pseudo-nitzschia* spp. and domoic acid along the coast of southern California. *Harmful Algae* DOI:10.1016/j.hal.2018.07.007.

Caron, D.A., A.G. Gellene, J. Smith, E.L. Seubert, V. Campbell, G.S. Suhatme, B. Seegers, B.H. Jones, A.A.Y. Lie, R. Terrado, M.D.A. Howard, R.M. Kudela, K. Hayashi, J. Ryan, J. Birch, E. Demir-Hilton, K. Yamahara, C. Scholin, M. Mengel, G. Robertson. 2017. Response of phytoplankton and bacterial biomass during a wastewater effluent diversion into nearshore coastal waters. *Estuarine, Coastal and Shelf Science* 186:223-236.

Smith J., Gellene, A.G., Hubbard, K.A., Bowers, H.A., Kudela, R.M., Negrey, K., and Caron, D.A., 2018. Pseudo-nitzschia species composition affects domoic acid in the plankton during two consecutive years in the Southern California Bight. *Journal of Plankton Research*.

Seubert, E.L., Gellene, A.G., Campbell, V., Smith, J., Robertson, G. and Caron, D.A., 2017. Incubation experiments to determine the response of a natural plankton community to treated sewage effluent. *Estuarine, Coastal and Shelf Science*.

Trinh, R. C., Fichot, C.G., Gierach, M.M., Holt, B., Malakar, N. K., Hulley, G., Smith, J., 2017. Application of Landsat 8 for monitoring impacts of wastewater discharge on coastal water quality. *Frontiers in Marine Science*.

## Technical Reports

Du, B., J. Smith, K. Maruya, C.S. Wong. 2020. Comparison of Novel Passive Sampling Methods to Identify Cyanotoxins and their Sources. Technical Report 1123. Southern California Coastal Water Research Project. Costa Mesa, CA.

Schiff, K.C., E.D. Stein, S. Aminzadeh, A. Boehm, G. Hildebrand, L. Honeybourne, I. Nasser, P. Ode, S. Taylor, D. Senn, J. Smith, C. Sommers, E. Strecker. 2014. Southern California Stormwater Monitoring Coalition 2014 Research Agenda. Technical Report 828. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.