updated: 2018/11/03

Priya M. Ganguli, Ph.D. **Curriculum Vitae**

California State University, Northridge
Department of Geological Sciences / Water Science Program
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2017 – present Assistant Professor in Geological Sciences and Water Science, California State University, Northridge (CSUN), Northridge, CA

Education

2013 PhD in Earth Sciences, UC Santa Cruz
Mercury Speciation and Transport at the Land-Sea Margin
Committee: A.R. Flegal (chair), P.W. Swarzenski, A.T. Fisher, C.H. Lamborg, J.C. Zachos

1998 MS in Earth Sciences, UC Santa Cruz
Mercury Speciation in Acid Mine Drainage: New Idria Quicksilver Mine, CA
Committee: A.R. Flegal (chair), R.P. Mason, R.S. Anderson

1995 BS with Honors in Geology (major) and Mathematics (minor), Indiana University, Bloomington
Sanidine ^{40}Ar / ^{39}Ar Results from Mesozoic Rhyolite Dikes Near Lake Gaston, NC and VA
Senior Thesis Advisors: R.P. Wintsch, M.J. Kunk

Postdoctoral Fellowship Appointments

2015-2017 NSF Division of Ocean Sciences Postdoctoral Research Fellowship
The Role of Phytoplankton Blooms in Nearshore Marine Mercury Bioaccumulation
Advisors: Katherine R.M. Mackey (UC Irvine) and Carl H. Lamborg (UC Santa Cruz)

2013-2015 Woods Hole Oceanographic Institution (WHOI) Postdoctoral Scholar Fellowship co-sponsored by the United States Geological Survey (USGS)
Climate Change Impacts on Mercury Cycling in Coastal Saltmarsh Systems
Advisors: Carl H. Lamborg (WHOI) and Kevin D. Kroeger (USGS)

Additional Professional Experience

2016 (Fall) Associate Faculty, Saddleback Community College, Mission Viejo, CA. Instructor for *Introduction to Physical Geology*; lecture, lab, and field curriculum.

2014-2015 Co-Instructor, *Chemical Oceanography* module for the Ocean and Environmental Sciences undergraduate summer course (Woods Hole Partnership Education Program); lecture, lab, and field curriculum.

2010-2011 Technical Consultant, EPA Klau/Buena Vista Mercury Mine Superfund Site; riparian and reservoir sampling design and remediation strategies.

1999-2006 Engineering Geologist & Environmental Specialist, San Francisco Bay Water Board; environmental remediation (mine sites, streams, groundwater, wetlands/slough)

1998-2000 Staff Research Associate, UC Santa Cruz; sampling and analyses to assess trace metal cycling in San Francisco Bay.

1996 Research Assistant, Intergovernmental Oceanographic Commission, W. Atlantic cruise; on-board analysis of arsenic and antimony species.

Graduate Student Fellowships

2012 Switzer Foundation Environmental Fellowship

2012 UC Santa Cruz Doctoral Sabbatical Fellowship

2012 UC Santa Cruz Earth & Planetary Sciences Department Teaching Service Fellowship

2008 UC Toxics Graduate Student Fellowship

Honors & Awards

2015 Doris M. Curtis Outstanding Woman in Science Award, Geological Society of America

2014 Dissertations Symposium in Chemical Oceanography (DISCO XXIV) Participant

2013 (+ 2012, 2011, 2009) Departmental Outstanding Teaching Award, UC Santa Cruz (student-vote)

2010 Student Oral Presentation Award, NorCal SETAC, Berkeley, CA

2000 Association of Bay Area Governments Outstanding Staff Award, Oakland, CA

1998 University-wide Outstanding Teaching Award, UC Santa Cruz (faculty-vote)

1995 Geology Faculty Award for Outstanding Senior, Indiana University

1994 Department Award for Outstanding Junior (Professional Development), Indiana University

1993 N. Gary Lane Beginning Geologist Award, Indiana University

Courses Taught

Semester	Course	Institution	Responses/Enrolled	Score
2018 Fall	Geology of Planet Earth	CSUN	56 enrolled – currently teaching	
2018 Fall	Geology of Planet Earth	CSUN	56 enrolled – currently teaching	
2018 Spring	Geology of Planet Earth	CSUN	28/55	4.6/5
2016 Fall	Intro to Physical Geology	Saddleback College	26	N/A
2014 Sum	Chemical Oceanography	Woods Hole PEP Program	15	N/A

Workshops to Enhance Teaching Skills

2018-2019 CSUN eLearning Institute – incorporating inclusive teaching practices to effectively reach and engage students (academic year)

2018 Fall CSUN Equity-Minded Syllabus Workshop (6-meetings)

2018 Spring CSUN First Year Faculty Development Workshop (6-meetings)

2017-2018 Empowering Faculty to Talk about Race: Black Minds Matter 8-wk symposium, CSUN

2016 Using Technology to Facilitate Active Learning (Center for Engaged Instruction, UC Irvine)

2013 Mentoring Undergraduate Researchers (Undergraduate Research Opportunities Center (UROC), California State University, Monterey Bay)

Invited Presentations and Lectures for University Courses *(see Science Outreach for K-12 activities)*

2018/04 Legacy Mining Impacts – How Mercury Made the California Gold Rush Possible. Invited presentation for Geochemistry, CSUN.

2017/11 Wetland Remediation, Peyton Slough, Martinez, CA. Invited presentation for Environmental Science, University of San Francisco.

2016/05 Wetland Remediation Through the Lens of an Environmental Resource Agency. Invited presentation for Terrestrial Hydrology, UC Irvine.

2016/01 Impacts from Legacy Gold and Mercury Mining in California. Invited presentation for Regional Environmental Issues, UC Irvine.

2014/05 The influence of submarine groundwater discharge on mercury cycling in coastal systems. Invited presentation for Groundwater Contamination, UCSC.

2013/05 *(also presented in Nov 2012, May 2012, May 2010, May 2009, and Nov 2005)* Geochemistry of San Carlos Creek: Impacts from the New Idria Mercury Mine, CA. Reoccurring invited presentation for Field Methods in Geology, UCSC

2012/10 Radioactive Decay and Crustal Formation in the Hadean & Archean Eons. Substitute lecturer for Evolution of the Earth, UCSC.

2012/10 Mercury Biogeochemical Cycling: The Convergence of Geochemistry and Microbiology. Invited presentation for Interdisciplinary Approaches in Environmental Toxicology, UCSC.

2012/05 Wetland Remediation in Peyton Slough, Martinez, CA. Invited presentation for Fates and Sources of Pollutants, UCSC.

2012/04 Relative and Absolute Time. Substitute lecturer for Geologic Principles, UCSC.

2012/03 Salt Water Intrusion. Substitute lecturer for Groundwater Geology, UCSC.

2011/11 Mercury Speciation and Transport at the Land-Sea Margin: The Role of Submarine Groundwater Discharge and Barrier Beach Lagoons. Invited presentation for Fates and Sources of Pollutants, UCSC.

2010/01 Mercury Contamination and Environmental Impacts. Invited presentation for Environmental Geology, UCSC.

2006/04 Remediating Petroleum Hydrocarbon Impacted Groundwater. Invited presentation for Groundwater Contamination, UCSC.

2005/11 Environmental Degradation from Mining Operations. Invited presentation for Aquatic Toxicology, UCSC.

2001/04 Tomales Bay Watershed: Impacts from Historic Mining Operations. Invited presentation for Population and Community Ecology, Integrative Biology Dept, UC Berkeley.

2001 An Overview of Groundwater Remediation and Waste Containment Projects at the San Francisco Bay Water Board. Invited presentation for Aquatic Toxicology, UCSC.

Journal Publications *(*undergraduate mentee)*

In prep **Ganguli, P.M.;** Swarzenski, P.W.; Dimova, N.T.; Fisher, A.T.; Conaway, C.H.; *Hohn, R.A.; *Merckling, M.; *Kehrlein, N.C.; Richardson, C.M.; Johnson, C.D.; Lamborg, C.H.; Flegal, A.R. Driving mechanisms for monomethylmercury production and transport in nearshore surface water and groundwater: Younger Lagoon, California. In prep for Marine Chemistry.

Accepted Lamborg, C.H.; Valiela, I.; Collins, C.; Buchanan, W; Swarr, G.; Mincer, T.; **Ganguli, P**.; Whalen, K; Bothner, M. Mercury Speciation and Retention in a Salt Marsh Undergoing Long-term Fertilization. Estuarine, Coastal and Shelf Science.

2018 Kumar, A.; Divoll, T.J.; **Ganguli, P.M.**; Bothner, M.H.; Trama, F.; Lamborg, C.H.; Presence of artisanal gold mining predict mercury bioaccumulation in five genera of bats (Chiroptera). *Environmental Pollution*, 236: 862-870

2016 Dimova, N.T.; **Ganguli, P.M.**; Swarzenski, P.W.; Izbicki, J.A.; O'Leary, D. Hydrogeologic controls on material exchange through an intermittent, permeable beach barrier: Malibu Lagoon, CA. *Journal of Hydrology: Regional Studies*, http://dx.doi.org/10.1016/j.ejrh.2016.08.003.

2015 *Cossaboon, J.M.; **Ganguli, P.M.**; Flegal, A.R. Mercury offloaded in Northern elephant seal hair impacts coastal seawater surrounding rookery. *Proceedings of the National Science Academy*, 112: 12058-12062.

2015 Voss, B.M.; Peucker-Ehrenbrink, B.; Eglinton, T.I.; Spencer, R.G.M.; Bulygina, E.; Lamborg, C.H.; **Ganguli, P.M.;** Wang, Z.A.; Hoering, K.A.; Montluçon, D.B.; Marsh, S.; Gillies, S.L.; Fanslau, J.; Epp, A.; Luymes, R. Tracing river chemistry in space and time: 2. Seasonal hydrology drives rapid shifts in dissolved and particulate organic carbon in the Fraser River, Canada. *Biogeosciences*, 19, (12), 5597-5618.

2015 Johnson C.D.; Swarzenski, P.W.; Richardson, C.M.; Smith, C.G.; Kroeger, K.D.; **Ganguli, P.M.** Ground-truthing electrical resistivity methods in support of submarine groundwater discharge studies: Examples from Hawaii, Washington, and California. *Journal of Environmental & Engineering Geophysics*, 20, 81-87.

2014 **Ganguli, P.M.;** Swarzenski, P.W.; Dulaiova, H.; Glenn, C.R.; Flegal, A.R. Mercury dynamics in a coastal aquifer: Maunalua Bay, Oʻahu, Hawaiʻi. *Estuarine, Coastal and Shelf Science*, 140, 52-65.

2012 Flegal, A.R.; Gallon, C.; Conaway, C.H.; **Ganguli, P.M.** All the lead in China. C*ritical Reviews in Environmental Science & Technology*, 43, 1869-1944.

2012 **Ganguli, P.M.;** Conaway, C.H.; Swarzenski, P.W.; Izbicki, J.A.; Flegal, A.R. Mercury speciation and transport via submarine groundwater discharge at a Southern California coastal lagoon system. *Environmental Science & Technology*, 46, 1480-1488.

2009 Black, F.J.; Paytan, A.; Knee, K.L.; De Sieyes, N.R.; **Ganguli, P.M.;** Gray, E.; Flegal, A.R. Submarine groundwater discharge of total mercury and monomethylmercury to central California coastal waters. *Environmental Science & Technology*, 43, 5553-5559.

2009 Johnson, B.E.; Esser, B.K.; Whyte, D.C.; **Ganguli, P.M.;** Austin, C.M.; Hunt, J.R. Mercury accumulation and attenuation at a rapidly forming delta with a point source of mining waste. *Science of the Total Environment*, 407, 5056-5070.

2001 Alleman, L.Y.; Church, T.M.; **Ganguli, P.M.;** Véron, A.J.; Flegal, A.R.; Hamelin, B. Role of oceanic circulation on pollutant lead distribution in the South Atlantic. D*eep Sea Research Part II: Topical Studies in Oceanography*, 48, 2855-2876.

2000 **Ganguli, P.M.;** Mason, R.P.; Flegal, A.R.; Abu-Saba, K.E.; Anderson, R.S. Mercury speciation in drainage from the New Idria Mine, CA. *Environmental Science & Technology*, 34, 4773-4779.

Conference Proceedings *(*undergraduate mentee)*

Submitted Hauswirth, S.C.; Ganguli, P.M.; Devera, L.; Otto, D.; Sadeghi, S.; Agop, M. Chemical Impacts Associated with Southern California Wildfires. AGU, Washington D.C., USA.

2017 **Ganguli, P.M.**; *Zarate, S.G., *Kaur, P.; *Serrano, A.; Lamborg, C.H.; Luengen, A.C.; Gibson, D.; Nussbaum, B.; *Chortek, E.; Heim, W.; Mackey, K.R.M. (poster) Evaluating the influence of cell size

and salinity gradients on mercury uptake by phytoplankton in coastal lagoon ecosystems. *International Conference on Mercury as a Global Pollutant*, Providence, RI, USA.

2017 *Zarate, S.G.; **Ganguli, P.M.**; *Serrano, A.; *Kaur, P.; Lamborg, C.H.; Luengen, A.C.; Gibson, D.; Nussbaum, B.; Heim, W.A.; Mackey, K.R.M. (poster) Seasonal drivers of mercury uptake by phytoplankton in a Southern California coastal lagoon system. *International Conference on Mercury as a Global Pollutant*, Providence, RI, USA.

2017 Lamborg, C; Mincer,T; Buchanan, W; Collins, C; Swarr, G; **Ganguli, P.**; Whalen, K.; Bothner, M; Valiela, I. Mercury Speciation and Retention in a Salt Marsh Undergoing Long-term Fertilization. *International Conference on Mercury as a Global Pollutant*, Providence, RI, USA.

2017 *Kaur, P.; **Ganguli, P.M.**; Lamborg, C.H.; Mackey, K.R.M. (poster) A framework for interpreting phytoplankton-mercury interactions at the land-sea margin: The effect of cell size and salinity gradients. *ASLO Aquatic Sciences Meeting*, Honolulu, HI, USA.

2017 *Serrano, A.; **Ganguli, P.M.**; Lamborg, C.H.; Gibson, D.; Nussbaum, B.; Mackey, K.R.M. (poster) Evaluating the effects of phytoplankton size and community structure on mercury bioaccumulation in a Southern California coastal lagoon system. *ASLO Aquatic Sciences Meeting*, Honolulu, HI, USA.

2016 *Kaur, P.; **Ganguli, P.M.**; Mackey, K.R.M. (virtual poster) Utilizing *Thalassiosira* diatom cultures to provide a framework for understanding phytoplankton-mercury interactions. *AGU Virtual Poster Showcase*.

2016 *Serrano, A.; **Ganguli, P.M.**; Mackey, K.R.M. (virtual poster) The influence of phytoplankton size and community structure on mercury bioaccumulation: Results from an *in situ* field incubation experiment. *AGU Virtual Poster Showcase*.

2016 *Zarate, S.G.; **Ganguli, P.M.**; Mackey, K.R.M. (virtual poster) Seasonal variability in mercury-phytoplankton interactions: San Elijo Lagoon, San Diego County, CA. *AGU Virtual Poster Showcase*.

2016 *Serrano, A.; **Ganguli, P.M.**; Mackey, K.R.M. (poster) Assessing drivers of mercury uptake in naturally occurring phytoplankton communities: San Elijo Lagoon, Southern California. *Society of the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference*, Long Beach, CA, USA.

2016 *Kaur, P.; **Ganguli, P.M.**; Mackey, K.R.M. (poster) Evaluating the influence of size variability and salinity gradients on mercury uptake in cultured phytoplankton. *SACNAS National Conference*, Long Beach, CA, USA.

2015 **Ganguli, P.M.;** Gonneea, M.E.; Lamborg, C.H.; Kroeger, K.D.; O'Keefe Suttles, J.; Swarr, G.; Baldwin, S.; Brooks, B.W.; Green, A. (poster) Mercury speciation in saltmarsh porewater, groundwater, and surface water: Cape Cod, MA. *AGU Fall Meeting*, San Francisco, CA, USA.

2015 *Cossaboon, J.M.; **Ganguli, P.M.;** Flegal, A.R. (oral) Impacts of a North Pacific Predator on Nearshore Seawater Mercury Cycling via Top-Down Contamination. *AGU Fall Meeting*, San Francisco, CA, USA.

2015 Gonneea, M.E.; Kroeger, K.D.; Vadman, K.; **Ganguli, P.M.**; O'Keefe-Suttles, J.; Moseman-Valtierra, S.; Tang, J. High resolution chronology of salt marsh response to sea level rise. *Society of Wetland Scientists*, Providence, RI, USA.

2014 **Ganguli, P.M.;** Swarzenski, P.W.; Dimova, N.T.; *Merckling, M.; *Kehrlein, N.C.; *Hohn, R.A.; Richardson, C.M.; Johnson, C.D.; Conaway, C.H.; Fisher, A.T.; Lamborg, C.H.; Flegal, A.R. (invited talk) The dynamics of mercury speciation and transport at a Central California coastal lagoon. *AGU Fall Meeting*, San Francisco, CA, USA.

2014 **Ganguli, P.M.;** Gonneea, M.E.; Lamborg, C.H.; Kroeger, K.D.; O'Keefe Suttles, J.; Swarr, G.; *Vadman, K.J.; Baldwin, S.; Brooks, B.W.; Green, A. (poster) Mercury cycling in salt marsh pond ecosystems: Cape Cod, MA. *AGU Fall Meeting*, San Francisco, CA, USA.

2014 *Collins, C.W.; Lamborg, C.H.; Whalen, K.; Mincer, T.; Buchanan, W.; Huber, J.A.; Swarr, G.; **Ganguli, P.M.;** Bernhard, A. (poster) Mercury speciation, retention and genomics in fertilized salt marsh sediments. *AGU Fall Meeting*, San Francisco, CA, USA.

2014 **Ganguli, P.M.;** Swarzenski, P.W.; Dulaiova, H.; Glenn, C.R.; Flegal, A.R. (poster) Mercury dynamics in a coastal aquifer: Maunalua Bay, Oahu, Hawaii. *Ocean Sciences Meeting (ASLO, TOS, AGU)*, Honolulu, HI, USA.

2014 Swarzenski, P.W.; Kroeger, K.K.; Smith, C.G.; Frackell, J.; Storlazzi, C.D.; Prouty, N.G.; Dulaiova, H.; Glenn, C.R.; **Ganguli, P.M.** (talk) Tracers, processes, and associated impacts of submarine groundwater discharge in Hawaii: Examples from Maui, Hawaii, and Oahu. *Ocean Sciences Meeting*, Honolulu, HI, USA.

2013 *****Hohn, R.; **Ganguli, P.M.;** Swarzenski, P.W.; Odigie, K.O.; Richardson, C.M.; Merckling, J.; Johnson, C.; Flegal, A.R. (poster) Mercury concentrations in coastal sediment from Younger Lagoon, Central California. *AGU Fall Meeting*, San Francisco, CA, USA.

2013 *****Lurz, I.L.; **Ganguli, P.M.;** Swarzenski, P.W.; Richardson, C.M.; *Merckling, J.; Johnson, C.D.; Hibdon, S.; Flegal, A.R. (poster) Assessing geochemical controls on mercury transformations and transport at a coastal lagoon site. *SACNAS National Conference*, San Antonio, TX, USA.

2013 **Ganguli, P.M.;** Swarzenski, P.W.; Kroeger, K.D.; Smith, C.G.; Johnson, C.; *****Merckling, J.; Flegal, A.R. (poster) Mercury speciation and transport associated with groundwater discharge in a tidally dominated coastal system: Hood Canal, Washington. *International Conference on Mercury as a Global Pollutant*, Edinburgh, Scotland.

2013 *****Cossaboon, J.M.; **Ganguli, P.M.;** Flegal, A.R. (poster) Mercury speciation in nearshore seawater at Año Nuevo State Reserve: An assessment of elevated mercury concentrations due to Northern Elephant Seal site colonization. *International Conference on Mercury as a Global Pollutant*, Edinburgh, Scotland.

2013 The MMHg Intercalibration Group (poster) An intercalibration project to evaluate analytical techniques for the determination of monomethylmercury (MMHg) in seawater. *International Conference on Mercury as a Global Pollutant*, Edinburgh, Scotland.

2013 *****Cossaboon, J.M.; **Ganguli, P.M.;** Flegal, A.R. (poster) Impacts of Northern elephant seal colonization on mercury concentrations in coastal seawater at Año Nuevo, CA. *Annual International Association for Aquatic Animal Medicine*, Sausalito, CA, USA.

2013 Johnson, C.; Swarzenski, P.W.; Smith, C.; Kroeger, K.; **Ganguli, P.M.; ***Merckling, J. (poster) Ground-truthing electrical resistivity methods in support of submarine groundwater discharge studies: Examples from Hawaii, Washington, and California. *Symposium on the Application of Geophysics to Engineering and Environmental Problems*, Denver, CO, USA.

2012 Swarzenski, P.W.; Smith, C.A.; **Ganguli, P.M.;** Izbicki, J.A.; Sheibley, R.W. (invited talk) An assessment of submarine groundwater discharge and its nearshore ecological impacts: Examples from the U.S. west-coast and Hawai'i. *Goldschmidt Conference*, Montréal, Canada.

2011 **Ganguli, P.M.;** Conaway, C.H.; Dimova, N.T.; Swarzenski, P.W.; *****Kehrlein, N.C.; Flegal, A.R. (poster) Seasonal variability in mercury speciation within select coastal lagoons of Central California. *AGU Fall Meeting*, San Francisco, CA, USA.

2011 **Ganguli, P.M.;** Dimova, N.T.; Conaway, C.H.; Swarzenski, P.W.; *****Kehrlein, N.C.; Flegal, A.R. (talk) Mercury speciation and transport via submarine groundwater discharge at a coastal lagoon in Central California. *Groundwater Conference and California Groundwater Resource Association Annual Meeting*, Sacramento, CA, USA.

2011 **Ganguli, P.M.;** Conaway, C.H.; Swarzenski, P.W.; Izbicki, J.A.; *****Kehrlein, N.C.; Flegal, A.R. (poster) Mercury speciation in Coastal California barrier beach lagoons. *International Conference on Mercury as a Global Pollutant*, Halifax, Nova Scotia, Canada.

2010 **Ganguli, P.M.;** Black, F.J.; Swarzenski, P.W.; Conaway, C.H.; Paytan, A.; Miller, L.G.; Flegal, A.R. (talk) Mercury speciation and transport in submarine groundwater discharge. *Annual Northern California Society of Environmental Toxicology and Chemistry Conference*, Berkeley, CA, USA.

2010 Paytan, A.; Black, F.J.; **Ganguli, P.M.;** Knee, K.L.; de Sieyes, N.R.; Gray, E.; Conaway, C.H.; Flegal, A.R.; Swarzenski, P.W. (talk) Submarine groundwater discharge of total mercury and monomethylmercury to coastal waters. *Radium and Radon Isotopes as Environmental Tracers*, Jerusalem, Israel.

2009 **Ganguli, P.M.;** Fisher, A.T.; Flegal, A.R. (poster) Evaluating the influence of surface water - groundwater interaction on mercury bioavailability in a mine-impacted California coastal stream. *UC Toxics Research Symposium*, Berkeley, CA, USA.

2008 *Jennings, L.L.; **Ganguli, P.M.;** Black, F.J.; Paytan, A.; Flegal, A.R.; (poster) Submarine Groundwater Discharge of Mercury in Central California Waters. *SACNAS National Conference*, Salt Lake City, UT, USA.

2000 Whyte D.C.; **Ganguli P.M.** (talk) Impact of Mercury Mining on Tomales Bay Biota. *EPA Conference on Assessing and Managing Mercury from Historic and Current Mining Activities*, San Francisco, CA, USA.

1999 **Ganguli P.M.;** Abu-Saba K.E.; Mason R.P.; Flegal A.R. (talk) The source, concentration, and fate of mercury in acid mine drainage from the New Idria Mine: San Benito County, CA. *GSA Cordilleran Section Meeting*, Berkeley, CA, USA.

1999 **Ganguli, P.M.;** Mason, R.P.; Anderson, R.P.; Flegal, A.R. (poster) Transport of Mercury from the New Idria Quicksilver Mine to the San Joaquin Valley Drainage Basin. *Biennial State of the Estuary Conference*, San Francisco, CA, USA.

1997 **Ganguli, P.M.;** Mason, R.P.; Flegal, A.R. (poster) Mercury and arsenic speciation in mine water discharge. *Society of Environmental Toxicology and Chemistry Annual Meeting*, San Francisco, CA, USA.

1997 Cutter, G.A.; Cutter, L.S.; **Ganguli P.M.** (poster) Arsenic and antimony cycling in the equatorial Atlantic ocean. *ALSO*, Santa Fe, NM, USA.

1996 **Ganguli, P.M.;** Gill, G.; Flegal, A.R. (poster) Lead isotopic tracers of acid mine drainage. *UC Toxics Annual Research Symposium*, Santa Cruz, CA, USA.

1996 Beck, N.G.; **Ganguli, P.M.;** R.E. Ramirez, R.E.; Sampson, D.E.; Flegal, A.R. (poster) The use of lead isotopes to trace lead associated contaminants in the subsurface. *UC Toxics Annual Research Symposium*, Santa Cruz, CA, USA.

1995 **Ganguli, P.M.;** Beck, N.M.; Ramirez, R.E.; Sampson, D.E.; Flegal, A. R. (poster) Lead as a tracer in the environment. *Biennial California Groundwater Conference*, San Diego, CA, USA.

1995 **Ganguli, P.M.;** Kunk, M.J.; Wintsch, R.P.; Dorais, M.J.; Sacks, P.E. (talk) High precision sanidine $^{40}Ar/^{39}Ar$ results from Mesozoic rhyolite dikes near Lake Gaston, N.C. and VA*: GSA Annual Northeastern Section Meeting*, Hartford, CT, USA.

Grants

2018 CSU Council on Ocean Affairs, Science & Technology (COAST) 2018 Grant Development Program, *Developing an interdisciplinary approach to assess mercury cycling in coastal lagoon systems: Malibu Lagoon, Southern California* ($19, 585; **Ganguli**, Bram, Hughes, Bray)

2018 Water Resources and Policy Initiatives (WRPI) Faculty Research Incentive Award, *Legacy Mining Impacts from the New Idria Mercury Mine* ($27,566; **Ganguli**, Hauswirth, Hughes, Bray)

2013 Mildred E. Mathias Graduate Student Research Grant, UC Natural Reserve System

2009 Graduate Student NorCal SETAC Research Scholarship

2009 Myers Oceanographic and Marine Biology Trust Research Award, Santa Cruz, CA

2009 Friends of Long Marine Lab Student Research Award, UC Santa Cruz

2008 Center for the Dynamics and Evolution of the Land-Sea Interface Research Award, UC Santa Cruz

Service to the Field

2018 Organizing committee: 2018 Annual California Lake Management Society (CALMS) Conference

2017-2018 President-Elect of the California Lake Management Society (CALMS)

2015 Primary Convener, AGU Conference, San Francisco, CA. *Trace Metal Cycling in the Environment - 40 Years of Advancements*, Co-Chairs: Edward A. Boyle (MIT); Sergio Sanudo-Wilhelmy (USC); Frank J. Black (Westminster)

Journal Reviewer: *Environmental Science & Technology; Global Biogeochemical Cycles, Marine Chemistry*; *Science of the Total Environment*; *Estuarine, Coastal and Shelf Science*; *Water*

Virtual Panel Participant, *NSF Coastal Science, Engineering and Education for Sustainability (SEES)*

Proposal Reviewer: *NSF Division of Ocean Sciences*

External Reviewer for US Geological Survey Open File Report

Invited Speaker (Seminars & Workshops)

2018 NASA-CSUN Next Generation Science Standards Workshop: *Mercury, From Land to Sea*

2018 UCLA Geochemistry Seminar Series: *Mercury Cycling in Coastal Lagoon Systems*

2017 Environmental Studies Program Seminar, St. Mary's College of Maryland, St. Mary's City, MD.

2017 Earth and Environmental Sciences Seminar, California State University, Fresno, Fresno, CA.

2017 Geological Sciences Seminar, California State University, Northridge, Northridge, CA.

2015 Geological and Environmental Sciences Seminar, California State University, Chico, Chico, CA.

2015 Women in Geology Career Pathways Reception, Geological Society of America Annual Conference, Baltimore, MD.

2015 Panelist: Teaching Methods and Strategies Workshop; Center for Microbial Oceanography Research and Education (C-MORE)

2015 Earth Sciences Seminar, University of Minnesota, Minneapolis, MN.

2014 Woods Hole Oceanographic Institution, Marine Chemistry and Geochemistry Seminar.

2013 Sources of Methylmercury to Coastal Waters: Submarine Groundwater Discharge and Lagoons (WHOI, Harvard, UCONN research workshop), Woods Hole, MA.

Supervised Student Research *(*1st or †co-author on an abstract or journal publication)*

2018 – present Rachel Hohn (MS, Geological Sciences, CSUN). *Legacy Mining Impacts from the New Idria Mercury Mine.*

2018 – present Greg Jesmok (MS, Geological Sciences, CSUN). *Mercury cycling in high alpine lakes of the Sierra Nevada Mountains*.

2018 – present Cindy De Jesus Bartolo (BS, Geological Sciences, CSUN). *Assessing the influence of coastal lagoon remediation on mercury toxicity: Malibu Lagoon, CA*. **Awards:** [1]Department "On Fire" award; [2]Department field camp fellowship.

2017 †Emily Chortek (MS, Environmental Studies Dept, San Francisco State University). Mercury cycling in an urban impacted coastal lagoon system.

2016 *Priya Kaur (BS, Earth System Science, UC Irvine). *Utilizing Thalassiosira diatom cultures to provide a framework for understanding phytoplankton-mercury interactions*. **Awards**: [1]Poster Presentation Award, SACNAS 2016; [2]UC Irvine Summer Research for Undergraduates Program (SURP) fellowship; [3]UC Irvine Undergraduate Research Opportunities Program grant (UROP).

2016 *Araceli Serrano (BS, Earth System Science, UC Irvine). *The influence of phytoplankton size and community structure on mercury bioaccumulation.* **Awards**: [1]UC Irvine Summer Research for Undergraduates Program (SURP) fellowship; [2]UC Irvine Undergraduate Research Opportunities Program honorary grant; [3]California Alliance for Minority Participation in science (CAMP) research grant.

2016 *Sydney Zarate (BS, Earth System Science, UC Irvine). *Seasonal Variability in Mercury-Phytoplankton Interactions: San Elijo Lagoon, San Diego County, CA*. **Awards**: [1]UC Irvine CalSpace Undergraduate Research Award.

2014 *Caroline W. Collins, co-advised (WHOI Summer Intern from Connecticut College). *Mercury Speciation, Retention and Genomics in Fertilized Salt Marsh Sediments*.

2013 *Jennifer M. Cossaboon (BS, Molecular Cell & Developmental Biology, UC Santa Cruz). *Mercury speciation in nearshore seawater at Año Nuevo: An assessment of mercury inputs from elephant seal colonization.* **Awards**: [1]Myers Trust research award; [2]Stevenson College research award; [3]Friends of Long Marine Lab student award

2013 *Rachel A. Hohn (BS, Earth Sciences, UC Santa Cruz). *Linking mercury concentrations in sediment to lagoon surface water and shallow groundwater at a Central California coastal lagoon system*. **Awards**: [1]Myers Trust research award

2013 *Ivy L. Lurz (ACCESS Summer Intern, UC Santa Cruz). *Assessing geochemical controls on mercury transformations and transport at a coastal lagoon site*.

2012 †Jeremy Merckling (BS, Earth Sciences, UC Santa Cruz). *Bioavailable mercury in nearshore environments: The importance of surface water and groundwater at a coastal lagoon system.* **Awards**: [1]Friends of Long Marine Lab student award; [2]Myers Trust research award

2011 Christopher P. Morrow, co-advised (BS, Chemistry and Biochemistry, UC Santa Cruz). *Analyses of trace metal diagenetics in estuarine systems: Lead and cadmium in Younger Lagoon, CA.* (<u>thesis with honors</u>) **Awards**: [1]Myers Trust research award

2011 †Nicholas C. Kehrlein (BS, Earth Sciences, UC Santa Cruz). *Linking barrier beach lagoon geochemistry to mercury bioavailability: CA Coast.* **Awards**: Friends of Long Marine Lab student award

2010 Scott Katz, co-advised (BS, Chemistry and Biochemistry, UC Santa Cruz), *The distribution of dissolved Mn, Co and Ni in Elkhorn Slough, CA.* (thesis with honors) **Awards**: [1]Friends of Long Marine Lab student award

2008 *Lydia L. Jennings (ACCESS Summer Intern, UC Santa Cruz). *Submarine Groundwater Discharge of Mercury in Central California Waters*.

1999 Martha A. Thomas; co-advised (BS, Biology, UC Santa Cruz). *Microbial Production and Degradation of Methylmercury in Sediments of a Contaminated Mercury Mine: New Idria, California* (thesis with honors) **Awards**: [1]Biology Department undergraduate research grant.

Thesis Committees

2018 – present Justin Pardo (MS, Geological Sciences, CSUN) Chair: Dr. Jennifer Cotton

2018 – present Sina Sadeghi (MS, Geological Sciences, CSUN) Chair: Dr. Scott Hauswirth

2018 Erica Loza (BS, Geological Sciences, CSUN). *Using Stable Isotopes to understand the effects of Urbanization in southern California over the last 100 years*. Chair: Dr. Jennifer Cotton

2017 Ian Espinoza (BS, Geological Sciences, CSUN). *Characterization and Modeling of Non-Newtonian Fluids for Environmental Applications.* Chair: Dr. Scott Hauswirth

Service to the University, College, and Department

2018-2019 Equity and Diversity Representative for the Department of Geological Sciences

2018-2019 Web Page Committee Member (Geological Sciences)

2017-present CSUN Water Group Member (brought in an outside speaker for the Sept 2018 meeting)

2018/05 Commencement Ceremony Marshal for the Dept of Geological Sciences

2017-2018 CSUN Sustainability MA/MS Degree Design Workgroup

2017-2018 CSUN Institute for Sustainability, Water Group

Science Outreach

2018 Girls in Science & Technology mercury biouptake activity, Gaspar De Portola Middle School

2018 Mentorship lunch with the CSUN Women In Science student-run organization

2017 Co-presentation (w/ undergrad mentees) for FLOW; Amigos de Bolsa Chica, Huntington Bch

2016 Lab tour and research discussion with students from a local community college

2016 Invited panelist: UC Irvine Postdoc & Grad Student Workshop: *Managing Your Online Presence*

2016 Mentor for the Physical Sciences Undergraduate Mentoring (PSUM) program

2015 Judge for AGU Outstanding Student Paper Awards (OSPA)

2015 (+ 2014) Lecture and interactive lab on mercury in groundwater to 5th and 6th graders, Woods Hole Summer Science School

2014 Water infiltration discussion and field experiment at Waquoit Bay Summer Science School

2014 Science fair judge, Massachusetts State High School Science & Engineering Fair

2013 (+ 2009) Research mentor, ACCESS Program for Underrepresented Students, UC Santa Cruz

2013 Earth Science interactive lab, 5th- 7th grade (Edward A. Hall Middle School, Watsonville, CA)

2013 (+ 2012) Lab tour, Watsonville Charter School of the Arts 6th grade class

2012 Panelist, Earth Sciences Mentorship class, applying to graduate school

2012 History of mining in California, Senior Residential Community Science and Society Group

2011 Discussion leader: mercury cycling in the environment, UC Santa Cruz Geology Club

2010 Santa Clara County Boy Scout Geology Merit Badge Day Volunteer

Select Professional Development Activities

2016 Presentation and Public Speaking Fundamentals (Activate to Captivate 8-wk workshop)

2014 Funding Discussion Panel with Federal Program Officers from NSF, NOAA, and NASA

2012 Media Communications Training by COMPASS (Switzer Foundation 2-day workshop)

2012 Retaining Women in STEM fields (WiSE Workshop)

2010 Preparing for an Academic Career in the Geosciences (NAGT On the Cutting Edge Professional Development for Geoscience Faculty)

Select News Coverage of Research and Work Projects

2018 CSUN Researchers Tackle Water Issues Across Wide Range of Disciplines, CSUN Today, Aug 16, 2018

2018 Faculty Spotlight in The Footprint, CSUN Institute for Sustainability Newsletter, Aug 6, 2018

2015 The troubling reason why deep ocean mercury is reaching California's coasts (Washington Post)

2105 BBC Science in Action (interview with undergraduate 1st author, Jennifer Cossaboon at 14:55)

2015 When Seals Molt, They Leave Behind Mercury (Smithsonian.com Magazine)

2015 Molting Seals Boost Mercury Levels In Coastal Ecosystems (KPBS San Diego Public Radio broadcast)

2015 Molting elephant seals add mercury to coastal seawater (EurekaAlert!, AAAS Science News)

2015 Molting seals shed mercury along with fur (Science News)

2015 Elephant Seals Shed Mercury Along With Their Fur (IFLScience)

2015 Team traces elevated mercury levels in coastal seawater to hair shed by elephant seals (Phys.org)

2015 Mercury Spike Linked to Seals (The Australian)

2015 Molting elephant seals add mercury to coastal seawater (UC Santa Cruz press release)

2015 Mercury Rising? and Mercury Mobilized (WHOI Images of the Day)

2012 EPA's remediation efforts at the New Idria Mine Site (90.3 KAZU, NPR for the Monterey Bay)

2009 Mercury in San Francisco Bay (KQED QUEST video; minute 2:05)

2009 Groundwater fingered as a source of methylmercury in coastal waters (UC Santa Cruz News)

2009 Newly discovered source of methylmercury: Groundwater (Sea Grant News Release)

2009 Scientists Discover 'Surprisingly High' Methylmercury In Groundwater (Underwater Times)

2008 Toxic mercury cleanup ordered in West Marin (Marin Independent Journal)

2005 WaterBriefs: Rhodia marks milestones as Bay Area project nearly done (Industrial Water World)

2001 Mercury: a toxic legacy (UC Santa Cruz Feature Story)

2001 Old dump, secret mine overlooked by regulators (Point Reyes Light, Dec. 13, 2001)

2000 Inoperative mines: a major source of mercury in CA waters (UC Santa Cruz Currents)

2000 Heavy metal (MetroActive, 2nd Story)

Professional Associations

American Geophysical Union (AGU)
California Lake Management Society (CALMS)
Geological Society of America (GSA)
National Association of Geoscience Teachers (NAGT)
Earth Science Women's Network (ESWN)
Society of Environmental Toxicology and Chemistry
Coastal & Estuarine Research Federation (CERF) + affiliate societies:
California Estuarine Research Society (CAERS)
Pacific Estuarine Research Society (PERS)
CSU Council on Ocean Affairs, Science & Technology (COAST)
CSU Climate Change Research Community
CSU Water Resources and Policy Initiatives (WRPI)