

JEREMY L. CONKLE

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RESEARCH INTERESTS

Fate, transport and ecosystem and effects of aquatic pollutants. Pollutant transport on microplastics. Water reuse impacts. Science communication. Spatial analysis of contaminant flows. Environmental policy.

EDUCATION & EXPERIENCE

Assistant Professor, Texas A&M University Corpus Christi 2014-present
Department of Physical & Environmental Sciences

Research Fellow, Louisiana State University Coastal Sustainability Studio 2014
College of Art & Design

Instructor, Louisiana State University 2014
Department of Oceanography & Coastal Sciences

Postdoctoral Scholar, University of California Riverside 2010-2013
Department of Environmental Sciences

Research: Examined fate and transport processes of organic contaminants in soils, sediments and water. These contaminants included contaminants of emerging concern, legacy compounds such as DDT, PCBs and chlordane as well as current-use pesticides and methyl bromide alternatives.

PI: Dr. Jay Gan

Ph.D., Louisiana State University 2006-2010
Oceanography & Coastal Sciences

Dissertation: Pharmaceutical compounds in treatment wetlands: Potential removal and effects on microbial processes

Research: Examined the fate, transport and microbial impacts of pharmaceuticals and personal care products in wetland environments. Additional projects examined silver nano-particles in wetland soils and biogeochemical cycling in various aquatic environments.

Advisor: Dr. John R. White

Concentration: Wetland Science & Management

Minor: Disaster Science & Management

M.S., The College of Charleston 2004-2006
Environmental Studies

Thesis: Remediation of Hog Island Inlet: Site overview and assessment of factors influencing site clean up

Earth Tech, Richmond, VA 2002-2006
Field Chemist

Responsibilities: Emergency response to biological and chemical contamination. Characterization of unknown chemicals and validation of lab analysis.

B.S., Longwood University 1999-2003
Biology & Chemistry

Concentration: Ecology

PUBLICATIONS

Peer Reviewed Manuscripts

J. L. CONKLE

Assistant Professor, Texas A&M University Corpus Christi

- 16) Jiang, W., Y. Luo, **J. L. Conkle**, J. Li, J. Gan. Pesticides on residential outdoor surfaces: Runoff model prediction and aquatic toxicology. (*IN REVIEW: Water Research – August 2014*)
- 15) **Conkle, J. L.**, A. Cabrera, J. Thomas, D. Wang, J. Gan. Effects of CO₂ dissolution on phase distribution and degradation of dimethyl disulfide (DMDS) in soils under grape production. (*IN REVIEW: Pest Management Science – July 2014*)
- 14) Wu, S., L. K. Dodgen, **J. L. Conkle**, J. Gan. Plant uptake of pharmaceutical and personal care products from recycled water and biosolids: A review. (*IN REVIEW: Critical Reviews of Environmental Science and Technology – July 2014*)
- 13) Wu, S., **J. L. Conkle**, F. Ernst, J. Gan. Emerging contaminants in treated wastewater: Safe to use recycled wastewater for agricultural irrigation? (*IN REVIEW: Environmental Science & Technology – July 2014*)
- 12) Young, M. H., R. L. Green, **J. L. Conkle**, M. McCullough, D. A. Devitt, L. Wright, B. J. Vanderford, S. A. Snyder. (2014). Field-scale monitoring of pharmaceutical compounds applied to active golf courses by recycled water. *Journal of Environmental Quality*, 43(2), 658-670
- 11) Wu, Xiaoqin, F. Ernst, **J. L. Conkle**, J. Gan. (2013). Comparative uptake and translocation of pharmaceuticals and personal care products (PPCPs) by common vegetables. *Environment International*, 60, 15-22.
- 10) Theriot, J, **J. L. Conkle**, S. R. Pezeshki, R. D. DeLaune, J. R. White. (2013). Will hydrologic restoration of Mississippi River riparian wetlands improve their critical biogeochemical functions? *Ecological Engineering* 60, 192-198.
- 9) Anderson, M. A., **J. L. Conkle**, P. Pacheco, J. Gan. (2013). Use of hydroacoustic measurements to characterize bottom sediments and guide sampling and remediation of organic contaminants in lake sediments. *Science of the Total Environment*. 458-460: 117-124.
- 8) Wu, S., **J. L. Conkle**, J. Gan. (2012). Multi-residue determination of pharmaceutical and personal care products in vegetables. *Journal of Chromatography A* 1254, 78-86.
- 7) Wang, W., L. Delgado-Moreno, **J. L. Conkle**, M. Anderson, C. Amrhein, Q. Ye, J. Gan. (2012). Characterization of sediment contamination patterns by hydrophobic pesticides to preserve ecosystem functions of drainage lakes. *Journal of Soils Sediments* 12(9): 1407-1418.
- 6) **Conkle, J. L.**, J Gan, M. A. Anderson (2012). Degradation and sorption of commonly detected PPCPs in wetland sediments under aerobic and anaerobic conditions. *Journal of Soils and Sediments*. 12(7): 1164-1173.
- 5) **Conkle, J. L.**, J. R. White. (2012). An initial screening of antibiotic effects on microbial respiration in wetland soils. *Journal of Environmental Science and Health, Part A* 47 (10): 1381-1390.
- 4) **Conkle, J. L.**, C. V. Lattao, J. R. White, R. L. Cook. (2010). Competitive sorption and desorption behavior for three fluoroquinolone antibiotics in a wastewater treatment wetland soil. *Chemosphere* 80: 1353-1359.
- 3) **Conkle, J. L.**, C. V. Lattao, J. R. White, R. L. Cook. (2009). Pharmaceutical analysis for environmental samples: Individual and simultaneous determination of ciprofloxacin, ofloxacin and norfloxacin using an HPLC with fluorescence and UV detection with a wetland soil matrix. *Analytical Letters* 42(18): 2937 - 2950.
- 2) **Conkle, J. L.**, J. R. White, C. D. Metcalfe. (2008). Reduction of pharmaceutically active compounds by a lagoon wetland wastewater treatment system in Southeast Louisiana. *Chemosphere* 73(11): 1741-1748.
- 1) Akers, S. M., **J. L. Conkle**, S. N. Thomas, K. B. Rider. (2006). Determination of the heat of combustion of biodiesel using bomb calorimetry - A multidisciplinary undergraduate chemistry experiment. *Journal of Chemical Education* 83(2): 260-262.

Manuscripts in Preparation

- 4) Jiang, W., **J. L. Conkle**, Y. Luo, J. Li, J. Gan. Occurrence, distribution and accumulation of pesticides in residential outdoor areas.
- 3) **Conkle, J. L.**, W. Huang, J. Sickman, J. Gan. An index to assess pharmaceutical and personal care product contamination in water.
- 2) **Conkle, J. L.**, W. Huang, J. Sickman, J. Gan. A comprehensive method for the determination of groundwater contamination using isotopes and pharmaceuticals.
- 1) **Conkle, J. L.**, S. Wu, F. Ernst, J. Gan. Fate of PPCPs in field soils irrigated with treated wastewater.

J. L. CONKLE

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Book Chapters

- 2) **Conkle, J. L.**, J. R. White, C.D. Metcalfe. (2013). Methods for determining emerging contaminants in wetland matrices. *Methods in Biogeochemistry of Wetlands*. R.D. DeLaune, K.R. Reddy, C.J. Richardson and P. Megonigal. Soil Science Society of America.
- 1) White, J. R., J. Hendrickson, **J. L. Conkle**. (2008). Effect of changing land use on water quality in the coastal zone. *Coastal Watershed Management*. A. Fares and A. I. El-Kadi. Southampton, UK, WIT Press.

Technical Reports

- 2) **Conkle, J. L.**, L. Delgado-Moreno, M. Anderson, J. Gan. (2012). Survey of organochlorine pesticides and PCBs in McGrath Lake. Final Report. California State Water Resources Control Board.
- 1) Huang, W., **J. L. Conkle**, J. O. Sickman, J. Gan. (2012). Water quality assessment of the Beaumont Management Zone: Identifying sources of groundwater contamination using chemical and isotopic tracers. Final Report. California State Water Resources Control Board.

Digital Materials

- 2) Update for the Ecological Society of America's Communicating Ecosystem Services: Tools for scientists to engage the public. Water purification toolkit. <http://www.esa.org/ecoservices/>. 2008.
- 1) Update for the Ecological Society of America's Communicating Ecosystem Services: Tools for scientists to engage the public. Flood damage control toolkit. <http://www.esa.org/ecoservices/>. 2008.

TEACHING EXPERIENCE

Instructor

- 2) Introduction to Oceanography (OCS 1005), Louisiana State University. **Spring 2014**
Course Description: The world's oceans, their origin and evolution; interactions between physical, geological, chemical and biological processes in the marine environment; use and abuse of oceans.
- 1) Environmental Quality (ENSC 002), University of California Riverside. **Summer 2013**
Course Description: An introduction to environmental science, focusing on the impact of human development and technology on the quality of natural resources and living organisms. Topics covered include soil, water, and air pollution; water, land, and food resources; wildlife management and species endangerment; toxicology and risk management; solid and hazardous waste management. A separate discussion/debate course accompanied the lecture.

Supervised Teaching

- 1) Wetlands and Water Quality (OCS 4000), Louisiana State University. **Spring 2010**
Responsibilities: Prepared and delivered lectures to graduate and undergraduate students, incorporated various learning styles and designed and graded exams.

Teaching Assistant

- 2) Introduction to Oceanography (OCS 1005). Louisiana State University. **Fall 2006, Spring 2007 & 2010**
Responsibilities: Attended all lectures, guest lectured, graded assignments and administered tests to classes of ~120 students.
- 1) Introduction to Chemistry (CHEM 101 – 4 sections), Longwood University. **Fall 2003**
Responsibilities: Prepared, organized and conducted lab sections; graded all assignments.

Guest Lecturer

- 5) Freshman Seminar in Natural Science (NASC 093), University of California Riverside **Fall 2013**
Responsibilities: Conducted a discussion on past and present oil and gas exploration using the movie "Promised Land" as a starting point.
- 4) Environmental Quality (ENSC 002), University of California Riverside. **Fall 2013**
Responsibilities: Conducted lectures on land and food resources.
- 3) Fate and Transport of Contaminants in Soil (ENSC 127), University of California Riverside. **Spring 2010**

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Assistant Professor, Texas A&M University Corpus Christi

Responsibilities: Lectured on sorption, desorption and degradation of organic pollutants in soil.

- 2) Coastal Physical/Chemical System: Analytical Methods (OCS 7132), Louisiana State University. **2007 – 2009**
Responsibilities: Lectured on the setup and use of multiple gas chromatograms and a discrete nutrient analyzer.
- 1) Wetlands and Water Quality (OCS 4000). Louisiana State University. **Fall 2007 & 2008**
Responsibilities: Lectured on pharmaceuticals in the environment.

AWARDS & HONORS

- 7) American Chemistry Society AGRO Division New Investigator Award. *Finalist*. **2012**
Chosen as one of three finalists to present my research on agricultural chemicals at the Fall ACS conference in Philadelphia.
- 6) Dr. Theodore “Ted” Ford Scholarship. **2009**
Awarded for innovative research on environmental issues. LSU Department of Oceanography and Coastal Sciences.
- 5) Joseph Lipsey, Sr. Memorial Scholarship. **2009**
Awarded for excellence in the studies of marine science. LSU Department of Oceanography and Coastal Sciences.
- 4) 2nd place graduate student oral presentation. **2008**
Division S-10. Joint Meeting of the GSA, SSSA, ASA, CSSA, GCAGS and HGS. Houston, Texas.
- 3) Philip H. Jones award for best graduate student presentation. **2007**
23rd Eastern Canadian Symposium on Water Quality Research, Sherbrooke, Quebec, Canada.
- 2) LSU Graduate School Supplement Award. **2006**
Awarded for academic excellence
- 1) Beta Beta Beta National Biological Honor Society at Longwood University. **2001**

PRESENTATIONS

Invited

- 18) Adventures in Academia: Things you should know but have probably never been told. **Conkle, J.L.**, Keynote Speaker at the Graduate Student Symposium (GSS) at the Louisiana Universities Marine Consortium (LUMCON), Cocodrie, LA (02/14)
- 17) Water quality in wetlands and agricultural systems. **Conkle, J.L.**, Seminar at Texas A&M Corpus Christi, Corpus Christi, TX (02/14)
- 16) Water quality in wetlands and agricultural systems: Implications for public health. **Conkle, J.L.**, Seminar at Tulane University, New Orleans, LA (09/13)
- 15) Emerging contaminants in the Environment. **Conkle, J.L.**, Seminar at Villanova University. Villanova, PA (07/13)
- 14) Wetlands and water quality. **Conkle, J.L.**, Seminar at Savannah State University. Savannah, GA (05/13)
- 13) Career development panel. **Conkle, J.L.**, Panelist at UC Postdoc Union Membership meeting. University of California Los Angeles. Los Angeles, CA (04/13)
- 12) Emerging contaminants in Wetlands. **Conkle, J.L.**, Seminar at Skidaway Institute of Oceanography. Savannah, GA (01/13)
- 11) Choosing a path for your postdoc. **Conkle, J.L.**, Panelist at Obtaining Postdocs in Sciences Workshop, Graduate Student Resource Center, UC Riverside. Riverside, CA (01/13)
- 10) Assessment of total PPCP pollution in water samples using a new contamination index. **Conkle, J.L.**, Huang, W., Sickman, J., Gan, J. Oral presentation at the American Geophysical Union Annual Meeting, San Francisco, CA (12/12)
- 9) Tips on resume and C.V. writing. **Conkle, J.L.**, Panelist for the North American Student Advisory Council’s (NASAC) Student Noon-time Seminar at the SETAC North American 33rd Annual meeting, Long Beach, CA (11/12)
- 8) Environmental fate of chemicals from the past, present and future. **Conkle, J.L.**, Gan, J., Seminar at BASF Corporation, Research Triangle Park, Durham, NC (10/12)

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- 7) A survey of groundwater quality in the Beaumont Groundwater Management Zone. **Conkle, J.L.**, Huang, W., Sickman, J., Gan, J. Oral presentation at the Inland Empire Geological Society monthly meeting, Riverside, CA (07/12)
- 6) Septic waste contamination in the Beaumont groundwater basin. **Conkle, J.L.**, Huang, W., Sickman, J., Gan, J. Beaumont Cherry Valley Water Agency, Beaumont, CA (04/11)
- 5) Detection of septic system waste in the groundwater of Beaumont California using chemical and isotopic tracers. **Conkle, J.L.**, Huang, W., Sickman, J., Gan, J. San Geronio Pass Water Agency, Beaumont, CA (11/10 & 01/11)
- 4) Pharmaceuticals and personal care products in terrestrial and aquatic environments. **Conkle, J.L.**, White, J.R. Environmental Toxicology seminar. University of California, Riverside (10/10)
- 3) Pharmaceuticals in environmental systems. **Conkle, J.L.**, White, J.R. Seminar at Longwood University, Farmville, VA (10/10)
- 2) Removal of pharmaceutically active compounds by a lagoon-wetland wastewater treatment system in southeast Louisiana. **Conkle, J.L.**, White, J.R. Student Chapter of the Society for Wetland Scientists. Louisiana State University, Baton Rouge, LA (01/08)
- 1) Biodiesel as an alternate fuel source. **Conkle, J.L.**, Panelist at Alliance for Planet Earth's Alternative Energy Symposium. The College of Charleston, Charleston, SC (04/05)

Conferences (*presenter)

- 17) A novel approach to describe the total PPCP contamination in aqueous environments. ***Conkle, J.L.**, Huang, W., Sickman, J., Gan, J. Oral presentation at the SETAC North American 33rd Annual Meeting, Long Beach, CA (11/12)
- 16) Degradation and adsorption of carbonated dimethyl disulfide in soils with grape production in California. Cabrera, J.A., ***Conkle, J.L.**, Wang, D, Quin, R., Gan, J. Poster presentation at the 2012 Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions (MBAO), Orlando, FL (11/12)
- 15) 40 years later: A reconnaissance of DDT in sediments of two southern California lakes. ***Conkle, J.L.**, Delgado-Moreno, L., Anderson, M.J., Gan, J. Oral presentation at the 244th American Chemical Society National Meeting and Exposition, Philadelphia, PA. *Finalist; AGRO Division New Investigator Award.* (08/12)
- 14) Pharmaceuticals and personal care products in wetlands, wastewater irrigation and groundwater. ***Conkle, J.L.**, Gan, J. Oral presentation at the 2012 USDA Working Group W-2082 (Evaluating the Physical and Biological Availability of Pesticides and Contaminants in Agricultural Ecosystems) Annual Meeting, Texas A&M Kingsville Citrus Center, Weslaco, TX (01/12)
- 13) Degradation and sorption of PPCPs in oxic and anoxic wetland soils. ***Conkle, J.L.**, Gan, J. Oral presentation at the ASA-CSSA-SSSA 2011 International Annual Meeting, San Antonio, TX (10/11)
- 12) Distribution of organochlorine and current-use pesticides in sediments of the Salton Sea. Wang, W., ***Conkle, J.L.**, Delgado-Moreno, L., Anderson, M., Amrhein, C., Gan, J. Oral presentation at the 2011 Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry Annual Meeting, Huntington Beach, CA (04/11)
- 11) Wetland removal of PPCPs in treated wastewater. ***Conkle, J.L.**, White, J.R., C. Latta, R.L. Cook, C.D. Metcalfe, J. Gan. Poster presentation at the Global Implications for Domestic and Industrial Water Reuse Workshop, Tucson, AZ (01/11)
- 10) Antibiotic effects on microbial respiration in two wetland soils. ***Conkle, J.L.**, White, J.R. Oral presentation at ASA-CSSA-SSSA International Annual Meeting, Long Beach, CA (11/10)
- 9) Pharmaceutical compounds in wastewater: Potential for removal in treatment wetlands. **Conkle, J.L.**, *White, J.R., Metcalfe, C. Poster presentation at the Urban Environmental Pollution (ENPO2010) Conference. Boston, MA (06/10)
- 8) Effects of antibiotics on soil microbe mediated CO₂, CH₄ and N₂ evolution in wetland peat soil. ***Conkle, J.L.**, White, J.R. Oral presentation at the 10th International Congress on Ecology (INTECOL 10). Brisbane, QLD, AU (08/09)

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- 7) Sorption and desorption of three fluoroquinolone antibiotics to a wetland soil. *Conkle, J.L., Lattao, C., White, J.R., Cook, R.L. Oral presentation at the Joint Meeting of the GSA-SSSA-ASA-CSSA-GCAGS-HGS. Houston, Texas. 2nd Place Graduate Student Oral Presentation, Division S-10 (10/08)
- 6) Sorption and desorption of three fluoroquinolone antibiotics to a wetland soil. *Conkle, J.L., Lattao, C., White, J.R., Cook, R.L. Oral presentation at the Department of Oceanography and Coastal Sciences annual Graduate Student Symposium, LSU, Baton Rouge, LA (04/08)
- 5) Analysis and sorption of pharmaceutical compounds to organic-rich wetland soil. *Conkle, J.L., Lattao, C., White, J.R., Cook, R.L. Poster presentation at the 235th American Chemical Society National Meeting, New Orleans, LA (04/08)
- 4) Removal of pharmaceutically active compounds by a lagoon-wetland wastewater treatment system in Southeast Louisiana. *Conkle, J.L., White, J.R., Metcalfe, C. Oral presentation at the Graduate Student Symposium, LUMCON, Cocodrie, LA (02/08)
- 3) Removal of pharmaceutically active compounds by a lagoon-wetland wastewater treatment system in southeast Louisiana. *Conkle, J.L., White, J.R., Metcalfe, C. Oral presentation at the ASA-CSSA-SSSA 2007 International Annual Meeting, New Orleans, LA (11/07)
- 2) Removal of pharmaceutically active compounds by a lagoon-wetland wastewater treatment system in southeast Louisiana. *Conkle, J.L., White, J.R., Metcalfe, C. Oral presentation at the 23rd Eastern Canadian Symposium on Water Quality Research, Sherbrooke, Quebec, Canada. *Philip H. Jones award for best graduate student presentation* (10/07)
- 1) Removal of anthropogenic nitrogen by marshes in a Mississippi River freshwater diversion project. *Conkle, J.L., Gardner, L., Fry, B., White, J.R. Poster presentation at the 10th International Wetlands Biogeochemistry Symposium, Annapolis, MD (4/07)

ANALYTICAL EXPERIENCE

- Method development and analysis of emerging contaminants using a Waters Acquity UPLC-Trinity triple quadrupole mass spectrometer
- Method development and analysis of PCBs and pesticides using a Varian CP 3800 GC with 1200 quadrupole MS/MS
- Solid Phase Microextraction (SPME) of organochlorine pesticides using a Varian CP 3800 GC with 1200 quadrupole MS/MS equipped with a Combi Pal auto sampler
- Method development and analysis of PCBs and pesticides using an Agilent 6890N GC-MS
- Extraction of pharmaceuticals, pesticides and PCBs from water and soil
- Method development and analysis using an Agilent 1100 HPLC with UV and fluorescence
- Analysis of nutrients using a Seal discrete nutrient analyzer
- Method development and analysis using a Shimadzu GC with ECD, FID, and TCD detectors

GRANTS APPLIED

USDA NIFA Postdoctoral Fellowship Grant Program. "Exploring mitigation mechanisms of pharmaceuticals and personal care products in wetlands." 2010

PROFESSIONAL SERVICE & LEADERSHIP

Grant Review Panels

- Gulf of Mexico Research Initiative: RFP-II. 2012
Description: Assessed proposals for research funding provided by British Petroleum (\$500 million) to examine the Deep-water Horizon Oil Spill in the Gulf of Mexico. Served on the panel evaluating "Environmental effects of the petroleum/dispersant system on the sea floor, water column, coastal waters, beach sediments, wetlands, marshes, and organisms; and the science of ecosystem recovery." This panel helped select proposals to receive \$22.5 million dollars over a three-year period. Reviewed 21 proposals and served as the lead reviewer of 5.
- Gulf of Mexico Research Initiative: RFP-I. 2011

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Description: Assessed proposals for research funding provided by British Petroleum (\$500 million) to research the Deep-water Horizon Oil Spill in the Gulf of Mexico. Served on the panel evaluating “Environmental effects of the petroleum/dispersant system on the sea floor, water column, coastal waters, beach sediments, wetlands, marshes and organisms; and the science of ecosystem recovery.” This panel helped select 8 consortiums to receive \$112.5 million dollars over a three-year period. Reviewed 17 proposals and served as the lead reviewer of 4.

Grant Reviewer

National Science Foundation: Hydrologic Sciences **2013**
National Science Foundation: Environmental Chemical Science. **2011**

Society Affiliations

Society of Environmental Toxicology and Chemistry **2011 -**
Soil Science Society of America **2007 -**
Early Career Members Committee - *2013 to 2015*
American Chemical Society **2008 & 2012**
Society for Wetland Scientists **2007 - 2010**

Conference Participation

Invited Panelist, Society of Environmental Toxicology and Chemistry National Meeting **Nov. 2012**
“Resume and C.V. Writing Tips.” Long Beach, CA.
Topical Session Co-Chair, Soil Science Society of America National Meeting **Oct. 2011**
“Treatment wetlands and vegetative strips for water quality improvement.” Wetland Soils (S-10) and Soils and Environmental Quality (S-11). San Antonio, Texas.

Manuscript Reviewer

Environmental Science and Technology, Water Research, Journal of Chromatography A, Journal of Environmental Quality, Chemosphere, Journal of Soils & Sediments, Soil Science Society of America Journal, Science of the Total Environment, Environment International, Environmental Science and Pollution Research, Chemistry Central Journal, Environmental Pollution and California Agriculture Journal.

Administrative Duties

Early Career Members Committee, Soil Science Society of America **2013-2015**
Responsibilities: Worked as a team to develop programming for early career members at annual meetings, helped select the annual Early Career Professional Award and serve as a voice for early career members within the society.
Campus Recording Secretary, UC Postdoc Union (UAW 5810). **2011 -**
Responsibilities: Helped organize the first postdoc union on the UCR campus. Served on the committee to design and implement professional development tools to assist newly appointed postdocs in determining and achieving early career goals. Attended joint council meetings of all 10 UC campus representatives to discuss the development of resources to meet the needs of postdocs.
Vice-President, Marine Environmental Researchers, Louisiana State University. **2008 - 2009**
Responsibilities: Helped organize meetings, community outreach and social events. Attended department faculty meetings. Developed and maintained the first MER website.
Seminar Chair, Marine Environmental Researchers at Louisiana State University. **2007 - 2008**
Responsibilities: Scheduled and invited leading researchers from various fields to give weekly seminars in the Department of Oceanography & Coastal Sciences

Community Service

Thanksgiving Volunteer. Helped serve 5,000 meals to families in Riverside, CA. **2011**
Science Fair Judge. Riverside Unified School District Science & Engineering Fair. **2011**
MOvember. Fundraising for prostate and testicular cancer research. **2009 – 2011**

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Exhibitor. Louisiana Sea Grant Ocean Commotion.	2009
Science Fair Judge. Louisiana Science and Engineering Fair Region 7.	2009
Beach Sweep. Cleaned areas around the Lake Pontchartrain basin.	2006 – 2007
Beach Sweep. Cleaned beaches of the Cooper River in Charleston, SC.	2005
Adopt a Highway. Removed trash along roads in coastal South Carolina.	2004 – 2005
MESSA 8K for H ₂ O. Volunteered at races to raise money for education and improvement of water quality in Charleston, SC.	2004 – 2005

REFERENCES

Jay Gan

Relationship: Postdoctoral Supervisor

Professor of Env. Chemistry &
Water Quality Specialist
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University of California
Riverside, CA 92521
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John R. White

Relationship: Ph.D. Advisor

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Ron DeLaune

Relationship: Ph.D. Committee Member

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Jim (James) Sickman

Relationship: Research Collaborator

Associate Professor of Hydrology
2325 Geology Building
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