

DR. NICOLE M. DENNIS

Founder and Lead Scientist | AXIS Environmental Intelligence Group, LLC

Arizona-based | Remote and Client-Site Engagements Nationwide

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PROFESSIONAL PROFILE

Environmental toxicologist, analytical chemist, and Founder and Lead Scientist of AXIS Environmental Intelligence Group, LLC, providing independent scientific and regulatory advisory support for complex environmental contaminant, exposure, public health, litigation, and policy matters. Expertise includes PFAS and other emerging contaminants, environmental toxicology and exposure analysis, analytical chemistry and method development, chemical mixtures, regulatory analytics, and interpretation of environmental and biological data. Her work is grounded in analytical rigor, interdisciplinary collaboration, and respect for the diverse perspectives that strengthen environmental decision-making. She translates complex scientific evidence into defensible evaluations, expert-report and scientific-authority analyses, rebuttal and deposition-support materials, legislative scientific products, and decision-ready technical communications for legal, governmental, community, and consulting clients. Member of the U.S. Environmental Protection Agency's chartered Science Advisory Board, providing independent advice on scientific and technical issues underlying EPA policies and decision-making.

EDUCATION

Texas Tech University, 2018-2021

Doctor of Philosophy in Environmental Toxicology

Analytical Toxicology Concentration, GPA 4.0

Central Michigan University, 2015-2018

Bachelor of Science, Dual Majors in Biochemistry and Biology: Natural Resources

Magna Cum Laude, GPA 3.75

Yavapai College, 2013-2015

Associate of Arts in General Studies

Conferred with Honors, GPA 3.94

PROFESSIONAL EXPERIENCE

Independent Scientific Consultant, June 2025 – Present

AXIS Environmental Intelligence Group, LLC

Founder and Lead Scientist

Independent scientific advisory work initiated in June 2025; advisory practice formalized as AXIS Environmental Intelligence Group, LLC in May 2026

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- Founded and lead an independent scientific advisory practice supporting legal, governmental, community, research, and consulting clients confronting complex environmental contaminant, exposure, public health, regulatory, and policy questions.
- Provide scientific and regulatory advisory services involving PFAS and other emerging contaminants, environmental toxicology, exposure assessment, analytical chemistry, chemical mixtures, and interpretation of environmental and biological data.
- Evaluate expert reports, scientific literature, regulatory authorities, analytical results, exposure evidence, and health-based benchmarks to identify evidentiary dependencies, methodological limitations, and scientifically supportable conclusions.
- Prepare defensible litigation-support materials, including expert-report evaluations, scientific rebuttal memoranda, scientific-authority analyses, technical response matrices, and deposition and cross-examination support.
- Integrate environmental, toxicological, analytical, and regulatory information into decision-ready reports, technical memoranda, data tables, figures, presentations, and client-facing scientific communications.
- Provide legislative and public-facing scientific support through evidence synthesis, technical report development, policy briefing materials, and public-hearing testimony concerning environmental and public health issues.
- Support research planning, analytical method development, manuscript preparation, technical quality review, and specialized scientific subcontracting for multidisciplinary projects.
- Served as a scientific subject-matter expert for Outlier AI Global from June 2025 through January 2026, developing and evaluating advanced problem-answer materials and reviewing scientific content for technical accuracy, reasoning quality, clarity, and adherence to project requirements.

Research Assistant Professor, January 2024 – June 2025

Analytical Toxicology Core Laboratory, Department of Environmental and Global Health, and Center for Environmental and Human Toxicology, University of Florida

Supervisors: Dr. Nancy Denslow, Dr. Tracie Baker

- Developed/optimized HPLC-MS/MS and extraction methods for PFAS and hormone quantification in environmental and biological matrices
- Extracted and analyzed over 250 stored samples under Good Laboratory Practice (GLP) conditions.
- Conducted zebrafish exposure assays for complex chemical mixtures, evaluated reproductive endpoints, and maintained IACUC compliance records.
- Served as co-instructor of record for a graduate-level course in *Environmental and One Health*; led lectures and activities on water quality and environmental monitoring.
- Contributed as co-investigator on an NIH R01 proposal focused on chemical mixtures, microplastics, and oxidative stress (2024; scored but not funded).

- Co-organized the departmental spring seminar series and supported instruction of a graduate-level online course in *Environmental Policy and Risk Management*.

NIEHS T32 Postdoctoral Fellow, August 2021 – January 2024

Department of Environmental Science, University of California, Riverside

Advisors: Dr. Yinsheng Wang, Dr. Jay Gan

- Secured and renewed an NIEHS T32 training grant to support analytical method development for complex chemical mixtures to complete a large-scale EPA-funded study.
- Led a 3-year EPA-funded project investigating the fate and bioaccumulation of biosolids-borne contaminants in vegetable crops following land application.
- Developed and validated UPLC-MS/MS methods to quantify >40 emerging and legacy contaminants in soil, water, biosolids, and plant tissue matrices.
- Mentored undergraduate and graduate researchers, conducted integrated lab and field studies, and authored both peer-reviewed publications and laboratory SOPs.

Doctoral Research Assistant, 2018 – 2021

The Institute of Environmental and Human Health, Department of Environmental Toxicology, Texas Tech University

Doctoral Committee: Dr. Todd Anderson (Chair), Dr. Jordan Crago, Dr. Andrew Jackson, Dr. Chris Salice

- Conducted two 90-day avian reproductive exposure assays adhering to OECD guidelines and GLP standards.
- Optimized PFAS extraction methods and quantified PFAS in avian liver and egg samples using UPLC-MS/MS.
- Evaluated chronic single PFAS and binary PFAS mixture toxicity to avian receptors and maintained proper IACUC records for animal studies.
- Developed chronic avian toxicological reference values for PFAS exposure to inform Department of Defense (DoD) risk assessments and regulatory guidance updates.

Undergraduate Research Assistant, 2016 - 2018

Department of Biology, Central Michigan University

Advisor: Dr. Daelyn Woolnough

- Secured placement as a Ronald E. McNair Postbaccalaureate Achievement Scholar and research funding to investigate agricultural nutrient effects on mussel populations utilizing the collaboratively obtained water quality data, corresponding locations, and freshwater mussel surveys.
- Secured a creative endeavors research grant and developed non-lethal methods to assess the health of endangered mussel species for conservation.

- Collaborated with local indigenous scientists and obtained water sampling experience and water quality data for a research project.
- Conducted freshwater mussel surveys, relocated endangered mussels, and authored technical reports.

FEDERAL ADVISORY SERVICE

Member, Chartered Science Advisory Board, April 2026 – September 2029

U.S. Environmental Protection Agency

- Appointed as a special government employee to provide independent advice on scientific and technical issues underlying EPA policies and decision-making.
- Selected to contribute expertise in environmental toxicology to the Science Advisory Board's review and advisory activities.

INVITED TESTIMONY, BRIEFINGS, AND TALKS

Public Forums, Testimony, and Technical Briefings

- **Invited Expert Panelist and Scientific Speaker, “Science Matters! Lake Memphremagog: Learning the Facts and Finding Solutions,”** public forum hosted by the Memphremagog Protection Coalition, North Country High School Career Center and virtual, June 10, 2026. Presented an independent scientific evaluation of PFAS occurrence in watershed surface water and fish, the effectiveness and limitations of landfill-leachate treatment, cumulative contaminant loading, and the scientific basis for preventing additional PFAS inputs into the Lake Memphremagog watershed.
- **“Project Progress,”** confidential client technical briefing concerning biosolids and PFAS application-data analysis, prepared and presented for a private client of Lasee Research & Consulting, April 2026. Presented the data-processing methodology, PFAS source-to-application linkage, alternative approaches for addressing missing source data, key analytical assumptions and quality-control questions, and proposed county-level mapping deliverables for biosolids and estimated PFOS and PFOA applications.
- **“A Project Overview, Research Progress Update, and the Irvine Water District's Involvement,”** Irvine Ranch Water District, Irvine, California, October 2022.
- **“Creating and Prioritizing a Master List of Chemicals Found in Biosolids,”** U.S. Environmental Protection Agency Project Advisory Committee Meeting, November 2022.
- **“Unregulated Organic Chemicals in Biosolids: Prioritization, Fate, and Risk Evaluation for Land Applications,”** U.S. Environmental Protection Agency Project Advisory Committee Meeting, May 2022.

Invited Talks and Seminar Lectures

1. **“Contaminants in Island Waters: From Fate to Solutions,”** Water Resource Research Center, University of Hawaii at Manoa, Honolulu, Hawaii, October 2025.

2. **“Mixtures in Motion: Exploring the Occurrence, Fate, and Toxicity of Emerging Contaminants Across Environmental Systems,”** School of Plant and Environmental Sciences Research Seminar, Virginia Tech, Blacksburg, Virginia, May 2025.
3. **“Analysis of an Environmentally Concerning Complex Chemical Mixture Through a Biosolids–Soil–Plant Continuum,”** Environmental Toxicology Seminar Series, University of California, Riverside, Riverside, California, May 2023.
4. **“Emerging Contaminants in Treated Wastewater and Biosolids,”** Annual Biosolids Multistate Workgroup W4170 Meeting, June 2022. Co-presented with Dr. Jay Gan.
5. **“Characterizing the Chronic Oral Reproductive Toxicity of Per- and Polyfluoroalkyl Substances and Their Mixtures to Terrestrial Ecological Receptors to Inform Ecotoxicological Risk Assessment of PFAS-Contaminated Ecosystems,”** Environmental Toxicology Seminar Series, University of California, Riverside, Riverside, California, January 2022.
6. **“Characterizing the Chronic Toxicity of Select Per- and Polyfluoroalkyl Substances and Their Binary Mixtures for Use in Ecotoxicological Risk Assessments of PFAS-Contaminated Terrestrial Ecosystems,”** Environmental Sciences Seminar Series, University of California, Riverside, Riverside, California, January 2022.

PUBLICATIONS AND MANUSCRIPTS

Manuscripts Under Review and Submitted

1. **Dennis, N.M.**, Lewis, R.L., Kroll, K.J., Meyer, D.N., Denslow, N.D., and Baker, T.R. Endogenous hormone analysis for zebrafish (*Danio rerio*). Manuscript resubmitted following initial peer review, *Environmental Toxicology and Chemistry*. **Co-first authors: Nicole M. Dennis and Rachel L. Lewis.**
2. Kikanme, K.N., Karnjanapiboonwong, A., Angappan, R., **Dennis, N.M.**, Suski, J.G., Salice, C.J., and Anderson, T.A. Bioaccumulation dynamics of perfluorooctane sulfonic acid and a binary mixture of perfluorooctane sulfonic acid and perfluorohexane sulfonic acid in northern bobwhite (*Colinus virginianus*). Manuscript resubmitted following second peer review, *Ecotoxicology*.

Peer-Reviewed Publications

1. Kikanme, K.N., Karnjanapiboonwong, A., Angappan, R., **Dennis, N.M.**, Hossain, F., Suski, J.G., Salice, C.J., and Anderson, T.A. 2025. Chorioallantoic membrane of northern bobwhite (*Colinus virginianus*) as a nonlethal method for evaluating forever chemical exposure to avian offspring. *Environmental Toxicology and Chemistry*, 44(10), 2911–2917. doi:10.1093/etjnl/vgaf152.
2. **Dennis, N.M.**, Braun, A.J., Mafishiraz, Z., and Gan, J. 2025. Investigation of organic contaminants in field-cultivated vegetables receiving recycled water and biosolids applications. *Environment International*, 200, 109546. doi:10.1016/j.envint.2025.109546.
3. Meyer, D.N., Gonzalez, G.F., Cowart, J.R., Haimbaugh, A., **Dennis, N.M.**, and Baker, T.R. 2025. Sublethal juvenile dioxin exposure alters sperm motility and whole-body vitellogenin parameters in adult male zebrafish (*Danio rerio*). *Aquatic Toxicology*, 287, 107496. doi:10.1016/j.aquatox.2025.107496.

4. Paquette, A., Cavaneau, E., Haimbaugh, A., Meyer, D.N., Akemann, C., **Dennis, N.M.**, and Baker, T.R. 2025. Multi- and transgenerational histological and transcriptomic outcomes of developmental TCDD exposure in zebrafish (*Danio rerio*) ovary. *International Journal of Molecular Sciences*, 26(14), 6839. doi:10.3390/ijms26146839.
5. Kikanme, K.N., Karnjanapiboonwong, A., Angappan, R., **Dennis, N.M.**, Hossain, F., Suski, J.G., Salice, C.J., and Anderson, T.A. 2025. Maternal transfer and sex differences in brain bioaccumulation for northern bobwhite quail (*Colinus virginianus*) exposed to per- and polyfluoroalkyl substances. *Ecotoxicology and Environmental Safety*, 289, 117399. doi:10.1016/j.ecoenv.2024.117399.
6. Orikpete, O.F., Kikanme, K.N., Falade, T.D.O., **Dennis, N.M.**, Ewim, D.R.E., and Fadare, O.O. 2025. Neonicotinoid pesticides in African agriculture: What do we know and what should be the focus for future research? *Chemosphere*, 372, 144057. doi:10.1016/j.chemosphere.2024.144057.
7. **Dennis, N.M.**, Braun, A.J., and Gan, J. 2024. A high-throughput analytical method for complex contaminant mixtures in biosolids. *Environmental Pollution*, 345, 123517. doi:10.1016/j.envpol.2024.123517.
8. Kikanme, K.N., **Dennis, N.M.**, Orikpete, O.F., and Ewim, D.R.E. 2024. PFAS in Nigeria: Identifying data gaps that hinder assessments of ecotoxicological and human health impacts. *Heliyon*, 10(9), e29922. doi:10.1016/j.heliyon.2024.e29922.
9. Hossain, F., **Dennis, N.M.**, Karnjanapiboonwong, A., Subbiah, S., Longwell, A.S., Suski, J.G., Salice, C.J., and Anderson, T.A. 2024. Evaluation of the chronic reproductive toxicity of a fluorine-free firefighting foam and a short-chain fluorinated foam to northern bobwhite quail (*Colinus virginianus*). *Environmental Toxicology and Chemistry*, 43(1), 211–221. doi:10.1002/etc.5765.
10. Shi, Q., Xiong, Y., Kaur, P., **Dennis, N.M.**, Schlenk, D., and Gan, J. 2023. A strategy to minimize plant accumulation of contaminants of emerging concern: Alternation between treated wastewater and freshwater irrigation. *Environmental Science & Technology Letters*, 10(4), 302–307. doi:10.1021/acs.estlett.3c00058.
11. Xiong, Y., Shi, Q., Sy, N.D., **Dennis, N.M.**, Schlenk, D., and Gan, J. 2022. Influence of methylation and demethylation on plant uptake of emerging contaminants. *Environment International*, 170, 107612. doi:10.1016/j.envint.2022.107612.
12. Hossain, F., **Dennis, N.M.**, Subbiah, S., Karnjanapiboonwong, A., Guelfo, J.L., Suski, J.G., and Anderson, T.A. 2022. Acute oral toxicity of nonfluorinated firefighting foams to northern bobwhite quail (*Colinus virginianus*). *Environmental Toxicology and Chemistry*, 41(8), 2003–2007. doi:10.1002/etc.5398.
13. **Dennis, N.M.**, Hossain, F., Subbiah, S., Karnjanapiboonwong, A., Dennis, M.L., McCarthy, C.G., Jackson, W.A., Crago, J.P., Salice, C.J., and Anderson, T.A. 2022. Species- and tissue-specific chronic toxicity values for northern bobwhite quail (*Colinus virginianus*) exposed to PFHxA and a binary mixture of PFOS and PFHxA. *Environmental Toxicology and Chemistry*, 41(1), 219–229. doi:10.1002/etc.5238.
14. **Dennis, N.M.**, Hossain, F., Subbiah, S., Karnjanapiboonwong, A., Dennis, M.L., McCarthy, C., Heron, C.G., Jackson, W.A., Crago, J.P., Field, J.A., Salice, C.J., and Anderson, T.A. 2021. Chronic reproductive toxicity thresholds for northern bobwhite quail (*Colinus virginianus*) exposed to PFHxA and a mixture of PFOS and PFHxA. *Environmental Toxicology and Chemistry*, 40(9), 2601–2614. doi:10.1002/etc.5135.
Featured on the journal cover and selected for an Editor's Spotlight.

15. **Dennis, N.M.**, Subbiah, S., Karnjanapiboonwong, A., Dennis, M.L., McCarthy, C., Salice, C.J., and Anderson, T.A. 2021. Species- and tissue-specific avian chronic toxicity values for perfluorooctane sulfonate and a binary mixture of PFOS and perfluorohexane sulfonate. *Environmental Toxicology and Chemistry*, 40(3), 899–909. doi:10.1002/etc.4937.
16. **Dennis, N.M.**, Karnjanapiboonwong, A., Subbiah, S., Rewerts, J.N., Field, J.A., McCarthy, C., Salice, C.J., and Anderson, T.A. 2020. Chronic reproductive toxicity of perfluorooctane sulfonic acid and a simple mixture of perfluorooctane sulfonic acid and perfluorohexane sulfonic acid to northern bobwhite quail (*Colinus virginianus*). *Environmental Toxicology and Chemistry*, 39(5), 1101–1111. doi:10.1002/etc.4703.

PROFESSIONAL SERVICE AND OUTREACH

Scientific and Academic Service

- **Co-Organizer and Facilitator, Environmental and Global Health Spring Seminar Series**, Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida, Spring 2025.
- **Peer Reviewer, PFAS Research Grant Proposals**, Strategic Environmental Research and Development Program, U.S. Department of Defense, May 2024.
- **Review Panelist, Emerging Contaminants Research Grant Proposals**, Virginia Sea Grant, May 2024.
- **Volunteer Admissions Interviewer**, University of California, Riverside School of Medicine, 2022–2023. Participated in structured applicant interviews intended to reduce bias and support a diverse medical-school cohort.
- **Registered Peer Reviewer** for *Science of the Total Environment*, *Environmental Science & Technology*, *Environment International*, *Environmental Pollution*, and *Environmental Toxicology and Chemistry*.

Professional Leadership and Membership

- **Society of Environmental Toxicology and Chemistry**, Member, 2018–Present.
 - Co-Chair, “Analysis of Pharmaceuticals, Pesticides, and Other Chemicals in Environmental Matrices,” SETAC North America 43rd Annual Meeting, Pittsburgh, Pennsylvania, November 2022. The session received 37 abstract submissions from 14 countries and was selected for a full-day program.
 - Co-authored a subsequent session summary for *SETAC Globe*: Dennis, N.M., Ye, Y., and Hunter, W.S. 2023. “Analysis of Pharmaceuticals, Pesticides, and Other Chemicals in Environmental Matrices.”
- **American Chemical Society**, Member, 2018–Present.
- **Riverside Postdoctoral Association, University of California, Riverside**, Vice President, 2022–2023. Organized professional-development writing workshops, professional headshots, and community-building events for postdoctoral scholars.

- **Llano Estacado SETAC Student Chapter**, Member, 2018–2021; Treasurer, 2019–2020; President, 2020–2021. Organized youth STEM camps, toxicology-awareness fundraising, community cleanups, and science-fair judging at local minority-serving middle and high schools.

TEACHING AND MENTORING

Teaching

- **Co-Instructor, Environmental Policy and Risk Management in Public Health**, Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida, Spring 2025. Supported instruction and course activities for a graduate-level online course addressing environmental policy, regulation, and risk management.
- **Co-Instructor of Record, Environmental and One Health**, Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida, Fall 2024. Led graduate-level lectures and learning activities focused on water quality, environmental monitoring, and the integration of environmental, animal, and human health.

Mentoring

- Mentored a research chemist, postdoctoral scholar, two graduate students, and three undergraduate students while serving as Research Assistant Professor at the University of Florida, providing analytical guidance, scientific editing, research support, and individualized academic and professional development. **January 2024 – June 2025**
- Mentored two doctoral students, one research assistant, and two undergraduate students while serving as an NIEHS T32 Postdoctoral Fellow at the University of California, Riverside, providing practical training in field and laboratory methods, analytical workflows, data interpretation, and manuscript preparation. **August 2021 – June 2025**
- Mentored an incoming doctoral student through a chronic Northern Bobwhite quail reproductive toxicology study, including study execution, data analysis, and manuscript preparation, at Texas Tech University. **August 2019 – 2021**
- Mentored undergraduate and graduate researchers in freshwater mussel field surveys, necropsies, and community-ecology research methods at Central Michigan University. **July 2016 – May 2018**

GRANTS, HONORS, AND AWARDS

- **Ruth L. Kirschstein Institutional National Research Service Award Postdoctoral Fellowship (NIEHS T32)**, Department of Chemistry, University of California, Riverside, Fall 2021–2023. One of two postdoctoral fellowships available through the program; provided three years of salary-supported advanced training in environmental health research and analytical toxicology.

- **Outstanding Doctoral Student Award**, Department of Environmental Toxicology, Texas Tech University, Spring 2021. Selected as the top doctoral student in the Department of Environmental Toxicology; \$250 award.
- **Student Attendance Grant**, Society of Environmental Toxicology and Chemistry North America 41st Annual Meeting, Fort Worth, Texas, 2020.
- **Alumni Scholarship**, The Institute of Environmental and Human Health, Texas Tech University, Fall 2020. Awarded \$750 based on academic achievement and demonstrated potential in environmental toxicology.
- **Outstanding Master's Student Award**, Department of Environmental Toxicology, Texas Tech University, Spring 2020. Selected as the top master's-level student in the department; \$750 award.
- **Graduate Student Award in Environmental Chemistry**, American Chemical Society Division of Environmental Chemistry, Spring 2020. Included a \$100 award and complimentary division membership.
- **Student Travel Award**, Society of Environmental Toxicology and Chemistry North America 40th Annual Meeting, Toronto, Ontario, Canada, 2019.
- **Water Conservation Research Scholarship**, Texas Tech University Graduate School, Fall 2019. Awarded \$1,000 in support of graduate research.
- **Alumni Scholarship**, The Institute of Environmental and Human Health, Texas Tech University, Fall 2018. Awarded \$500 to an incoming graduate student demonstrating strong academic potential.
- **Student Research and Creative Endeavors Grant**, Central Michigan University, 2017. Awarded \$500 for research conducted through the Ronald E. McNair Postbaccalaureate Achievement Program under the supervision of Dr. Daelyn Woolnough.
- **Mary Jane Merrill Scholarship**, Department of Chemistry, Central Michigan University, Fall 2017. Awarded \$2,000 based on academic merit and declared chemistry major status.
- **Ronald E. McNair Postbaccalaureate Achievement Scholar**, Central Michigan University, 2017 Cohort. Received a \$3,500 research stipend and participated in the university's graduate-school preparation and research program.
- **Golden Key International Honour Society**, Central Michigan University, 2016. Nominated for membership based on academic achievement.
- **Society for Collegiate Leadership & Achievement**, Central Michigan University, 2016. Nominated for membership based on academic achievement and leadership potential.
- **Community College Honors Scholarship for Transfer Students**, Central Michigan University, 2015–2016. Awarded \$2,500 upon transfer admission and renewed for the following academic year.
- **President's Award for Transfer Students**, Central Michigan University, Fall 2015. Awarded tuition support valued at approximately \$11,000 annually through application of the in-state tuition rate.

- **Phi Theta Kappa International Honor Society**, Yavapai College, 2014. Nominated for membership based on academic achievement.
- **Yavapai College Summer Grant**, Yavapai College, Summer 2013. Awarded \$200 based on academic merit and financial need.

GRANT APPLICATIONS

National Institutes of Health Research Project Grant (Parent R01), 2024

Mechanistic Insights into Microplastic and Co-Contaminant-Induced Adult-Onset and Transgenerational Oxidative Stress-Mediated Adverse Developmental and Reproductive Outcomes

Total requested funding: **\$3,516,168**

Principal Investigator: Tracie Baker

Co-Investigators: Tara Sabo-Attwood, Nicole M. Dennis, Thomas Angelini, and Christopher Vulpe

Submitted: April 10, 2024

Outcome: Scored; not funded

- Contributed environmental toxicology, chemical-mixtures, analytical-method, and study-design expertise to the development of the proposal.

PROFESSIONAL DEVELOPMENT

- **First-Year Faculty Teaching Academy**, Center for Teaching Excellence, University of Florida, February 28–April 10, 2024. Instructors: Michael Barber, Kimberly Heal, and Jennifer Parker.
- **Environmental Mixtures Workshop: Applications in Environmental Health Studies**, Skills for Health and Research Professionals Training Program, Columbia University Mailman School of Public Health, July 26–27, 2023. Instructors: Brent Coull, Chris Gennings, Jeff Goldsmith, Marianthi-Anna Kioumourtzoglou, and Ander Wilson.
- **Statistical Issues in the Design and Analysis of Ecotoxicology Experiments**, full-day workshop, Society of Environmental Toxicology and Chemistry North America 43rd Annual Meeting, November 13, 2022. Instructors: John Green and Jeffrey Wolf.
- **Active Learning and Course Design Introductory Workshop**, Transforming Teaching Faculty Learning Program, Department of Chemistry, University of California, Riverside, September 15–16, 2022. Instructors: Jack Eichler, Matt Casselman, and Annie Ditta.

FIRST-AUTHOR CONFERENCE PRESENTATIONS

“Investigating Chemical and Biochemical Mixtures in Environmental and Biological Systems,” Waters Corporation Annual Early Career Summit, July 2024. Poster presentation.

“Targeted Analysis of a Complex Mixture of Unregulated Organic Chemicals in Biosolids,” Society of Environmental Toxicology and Chemistry North America 44th Annual Meeting, Louisville, Kentucky, November 2023. Oral presentation. Co-authors: Audrey J. Braun and Jay Gan.

“Biomimetic Chemical Methods to Assess the Bioavailability and Bioaccumulation of a High-Priority Unregulated Organic Chemical Mixture in Land-Applied Biosolids,” Society of Environmental Toxicology and Chemistry Europe 33rd Annual Meeting, Dublin, Ireland, April 2023. Poster presentation. Co-authors: Qingyang Shi, Yaxin Xiong, Parminder Kaur, Aspen L. Smith, Nathan D. Sy, Meixian Cao, and Jay Gan.

“Unregulated Organic Chemicals in Biosolids: Prioritization, Fate, and Risk Evaluation for Land Applications,” Society of Environmental Toxicology and Chemistry North America 43rd Annual Meeting, Pittsburgh, Pennsylvania, November 2022. Oral presentation and session co-chair. Co-authors: Qingyang Shi and Jay Gan.

“A Study Design for Unregulated Organic Chemicals in Biosolids: Prioritization, Fate, and Risk Evaluation for Land Applications,” University of California, Riverside Postdoctoral Association Fourth Annual Symposium, Riverside, California, April 2022. Oral presentation. Co-authors: Qingyang Shi and Jay Gan.

“Bioaccumulation in Northern Bobwhite Quail (*Colinus virginianus*) Liver Tissue and Egg Serum Following Chronic Exposure to PFHxA or a Mixture of PFHxA and PFOS,” Society of Environmental Toxicology and Chemistry South-Central Chapter Annual Meeting, Corpus Christi, Texas, April 2021. Oral presentation.

“Chronic Toxicity of Environmentally Relevant Exposure Concentrations of Individual PFAS Versus Binary PFAS Mixtures to Northern Bobwhite Quail,” Society of Environmental Toxicology and Chemistry North America 41st Annual Meeting, Fort Worth, Texas, November 2020. Oral presentation.

“Analysis of Northern Bobwhite Quail Liver Bioaccumulation and Egg Deposition Following Chronic Exposure to PFOS or a Mixture of PFOS and PFHxS,” Society of Environmental Toxicology and Chemistry Europe 30th Annual Meeting, Dublin, Ireland, May 2020. Poster presentation.