

Abigail E. Noble

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STRATEGIC THINKING / ENVIRONMENTAL CHEMISTRY / DATA SCIENCE

Dedicated scientist applying management, problem-solving, and analytical skills to new projects and programs. Expert chemist with a track record of collaborative success on multidisciplinary projects with diverse teams.

- Project management
- Industry consulting and regulatory compliance
- Stakeholder engagement
- Data management
- Data science
- Analytical chemistry
- Excellence in writing and publication
- Government policy and regulations

Ph.D., Chemical Oceanography, Massachusetts Institute of Technology, 2012

B.S., Chemistry, Haverford College, 2004

CAREER HIGHLIGHTS

- Empathetic project manager who prioritizes teamwork and shared responsibility to drive project success
 - Perceptive working style that facilitates effective engagement with stakeholders with distinct needs and priorities.
 - Adept at interpreting complex scientific findings to inform compliance and policy recommendations, as well as translating technical documents into language geared toward the general public.
 - 10+ years data management experience across academic, consulting, and government sectors
 - Experience building databases and dashboards, cleaning, analyzing, and visualizing complex, messy data using a variety of tools (R, MySQL, MSSMS, MSAccess, Tableau, Sigmaplot, Excel, Ocean Data View)
 - Competency with over a dozen traditional and highly-specialized chemical analysis techniques
 - Collaborated on >10 field expeditions with international research teams, totaling > 7 months at sea
 - Authored >20 peer-reviewed publications with over 1000 citations: [Full publication list](#)
 - Trained in management and protection of Confidential Business Information
 - 10+ years experience as an expert analyst of trace level constituents in complex aqueous matrices
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PROFESSIONAL EXPERIENCE

Independent Consultant

Principal

2023 – present

- Manages a joint project for the Sustainable Chemistry Catalyst (SCC) and Change Chemistry (CC) to accelerate multi-sector action on safer, more sustainable chemistry in the US by educating stakeholders on current ambitious European policies and their potential implications for policy and market initiatives.
- Co-facilitated expert working group meetings for SCC to solicit feedback on approaches to integrating environmental justice into the alternatives assessment process.
- Researched, developed and designed a chemical class prioritization framework with a team of experts for Environment Climate Change Canada (ECCC), and applied the framework to a specific chemical class (PFASs) to support ECCC in their efforts to prioritize risk management responses.
- Writes and edits strategic and scientific documents for SCC to disseminate, geared at a range of audiences
- Supports coordination of strategic in-person and virtual workshops, meetings, and conferences for SCC
- Reviews and provides critical feedback on contracted deliverables from an international consulting firm

California Environmental Protection Agency, Department of Toxic Substances Control

Senior Environmental Scientist

2019 – 2022

- Implemented California's Safer Consumer Products regulations *via* researching emerging chemicals of concern and analytical methodologies, collaborating with other agencies and external stakeholders, outreach via public workshops, data analytics, and data visualization.

- Managed the Candidate Chemicals List database, the Program’s informational list of >10,000 chemical-hazard trait combinations named by designated authoritative bodies. The database is publicly available on the Program’s CalSAFER platform at <https://calsafer.dtsc.ca.gov/>.
- Built databases, created visualizations and dashboards, cleaned and analyzed complex, messy data using R, MySQL, MSSMS, MSAccess, and Tableau
- Scoped new data tools and evaluated them for value added to the Program
- Advised management on data related strategies for programatic growth
- Scoped, pitched, and managed contracts with external contractors
- Collaborated with external stakeholders from industry, NGOs, and other government agencies to meet programatic needs and co-author research in peer reviewed literature.
- Created the Program’s Diversity, Inclusion, and Anti-racism Team. Under rotating leadership, the team focused on environmental justice issues under SCP’s purview, strove to establish trust and safe spaces for difficult conversations about race, and proposed approaches for more inclusive hiring practices.
- Presented at inter-agency and public workshops on research and policy efforts within the Program.
- Participated in inter-agency, state-wide, and global committees on various topics (plastic pollution, emerging contaminants, sustainable chemistry)

Independent Contractor

Environmental Scientist, Researcher, Writer

2014 – 2018

- Collaborated with scientists, analyzed data, edited manuscripts for publication, drafted proposals.

Gradient Corporation, Cambridge, MA

Associate Consultant, Environmental Chemist

2014 – 2017

- >3 years experience managing fast turnaround and multi-year environmental consulting projects.
- Collaborated with outside consultants, chemists, and toxicologists to develop a categorization framework for a >2,000-chemical portfolio to accommodate scaling and optimization for hazard assessments.
- Evaluated and reviewed regulatory and government sampling methods for data quality assessments.
- Drafted proposals, scopes and budgets, and managed project progress and client communications.
- Engaged with federal and state regulations and criteria (*e.g.*, TSCA, EPA Safer Choice, CARB, Natl. Primary and Secondary Drinking Water, State level DEP/DEQ water quality, NPDES permitting)
- Contributed as a team member on projects involving data quality assessment, international chemical registration, regulatory research, green chemistry initiatives, and environmental sampling methods.

Massachusetts Institute of Technology, Cambridge, MA

Postdoctoral Associate

2012 – 2014

- Investigated dissolved lead and lead isotopes at trace concentrations in the Atlantic Ocean.
- Participated in interdisciplinary research expeditions in the Pacific Ocean.

Woods Hole Oceanographic Institution, Woods Hole, MA

Multiple roles: Postdoctoral Investigator, Graduate Research Scientist, Research Assistant

2004 – 2012

- Investigated dissolved metals in the North Atlantic as part of a \$300M international collaboration.
- Developed expertise measuring a variety of trace metals in complex aqueous media.
- Designed, developed, and optimized experiments and analytical methods.
- Investigated metal nutrient cycling in the Antarctic, Arctic, Equatorial Pacific, and South Atlantic.

EDUCATION

Life Cycle Assessment - MIT Professional Education Program, Virtual	2024
Data Analytics Core Bootcamp - Level, by Northeastern University, Virtual	2019
PhD in Chemical Oceanography - MIT-WHOI Joint Program, Cambridge, MA	2012
BS in Chemistry - Haverford College, Haverford, PA	2004