Kaitlyn Yale, M.H.S.

SENIOR SCIENTIST I

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Ms. Kaitlyn Yale is a senior toxicologist at ToxStrategies. Her consulting and project experience includes addressing health risks to communities, consumers, and workers from a variety of compounds, including asbestos, heavy metals, diacetyl, and food flavorings. She specializes in analyzing scientific data to develop clear, evidence-based insights for clients. Her expertise with toxic tort litigation, toxicological review, and regulatory risk assessment includes providing technical and logistical support to expert witnesses in cases involving alleged occupational and non-occupational exposures to various substances or chemicals. Ms. Yale is also currently pursuing a Doctor of Public Health in Environmental Health and Engineering at the Johns Hopkins Bloomberg School of Public Health, where she is focusing on assessing human health risks to chemical exposures. In addition, she has presented on exposure and risk assessment topics at academic and professional conferences.

EDUCATION AND DEGREES EARNED

2025-Present	DrPH student, Environmental Health and Engineering Johns Hopkins Bloomberg School of Public Health, Baltimore, MD. Degree expected: 05/2029
2021	M.H.S., Environmental Health and Engineering Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
2021	Bioethics Certificate Johns Hopkins University, Baltimore, MD
2020	B.S., Chemistry University of Maryland, College Park, MD

PROFESSIONAL ASSOCIATIONS

2024-Present Society of Toxicology

SELECTED PROFESSIONAL EXPERIENCE

Human Health and Risk Assessment

Analysis of wastewater treatment programs in the Maryland and Washington, D.C. area

- Assisted in data collection and analysis to determine the effectiveness of biosolid wastewater treatment programs in the Maryland and D.C. region with the University of Maryland Department of Engineering.
- Collected samples from the treatment plants and analyzed the samples using chromatography, GC-MS, and DNA extraction.

Ancestry as a risk factor for type II diabetes and cardiometabolic disease in children

- Collaborated with peers at Johns Hopkins School of Medicine to design and conduct a multifaceted research study to explore ancestry as a risk factor for type II diabetes and cardiometabolic disease in children.
- Collected and analyzed data from human subjects using Stata and different modeling approaches to offer screening, surveillance, and treatment improvements for pediatric clinical care.

Assessment of ecological risks associated with agricultural glyphosate use in California

- Used publicly available EPA tools (BeeREX, T-HERPS, and T-REX) to assess the risk associated with agricultural glyphosate use in California to honeybees, herpetofauna, birds, and mammals.
- Glyphosate was used as a case study to inform pesticide development and demonstrate how publicly available tools can be used to assess risk of different pesticide ingredients.

Cumulative risk assessment design for wastewater treatment program

- Assisted in drafting and proposing a cumulative risk assessment for multiple chemicals in a wastewater treatment program by researching different frameworks and commonly studied mixtures.
- Worked with team to draft a well-rounded proposal that encompassed different properties, routes of exposure, and interactions between the chemicals in question.

Implementation of palliative care programs via telemedicine services for patients dying from COVID-19

- Partnered with a team of physicians and healthcare professionals across the country to design and implement palliative care programs via telemedicine services for patients dying from COVID19, with the goal of relieving the burden from hospital staff.
- Obtained letters of support from hospice programs across the east coast and aided in the technical writing of the grant submission.

Public health intervention program for communities living near power plants

- Conducted research at Johns Hopkins Bloomberg School of Public Health to compile major health disparities and environmental exposures from power plants among counties in the state of Maryland to define the health landscape and propose public health intervention programs.

Litigation Support

Asbestos and talc

- Managed clients and provided technical and logistical support for expert witnesses in toxic tort litigation cases involving alleged occupational and non-occupational exposures to asbestos and talc associated with drywall accessory products, paints, sealants, electrical products, automotive friction products, heavy machinery, HVAC equipment, boilers, gaskets, packing, fireproofing products, vinyl floor tiles, vinyl sheet flooring, and cosmetic talcum powder.
- Reviewed and summarize case-specific exposure and medical claim information, as well as corporate records.
- Performed exposure estimates, reviewed literature and regulatory documents, and assisted with developing opinion text.
- Prepared experts for depositions and trial appearances.

Food flavoring compounds

- Provided technical and logistical support for expert witnesses in toxic tort litigation cases involving alleged occupational and non-occupational exposures to food flavoring compounds, including diacetyl and other diketones.
- Reviewed and summarized case materials regarding exposure and medical claim information.
- Conducted literature searches and reviewed corporate documents to draft opinion text and exposure estimates.

Heavy metals

- Provided technical and logistical support for expert witnesses in toxic tort litigation cases involving alleged occupational and non-occupational exposures to heavy metals, including lead and chromium, through drinking water or dietary supplements.
- Conducted literature searches on historical data used for conducting exposure assessments and writing text.
- Reviewed and summarized case materials regarding exposure and medical claim information.

ABSTRACTS AND PRESENTATIONS

Righter R, **Yale K**, Stewart C, Marshall L, Fairbanks H. Methods in qualitative data analysis to progress community health equity. Abstract 3993/Poster EP02-18, International Society of Exposure Science and International Society for Environmental Epidemiology (ISES/ISEE) Joint Annual Meeting, Atlanta, GA, August 2025.

Bogar L, **Yale K**, Allen L, Burns A. Airborne silica from bentonite clay cat litter: An evaluation of potential non-occupational exposure and respiratory health risks. Abstract 4760, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Bogar L, Burns A, Ierardi M, **Yale K**. Updated potential airborne asbestos exposure and risk associated with the historical use of cosmetic talcum powder products. Abstract 3607, Society of Toxicology 63rd Annual Meeting, Salt Lake City, UT, March 2024.

Kramer J, Tella D, **Yale K**, Risco C. Discrimination and emotion regulation interact to predict hostility among substance-dependent African Americans. Poster Session II, American Psychological Association (APA) Annual Convention, Virtual, August 2020.