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## Areas of Expertise

- Human Health Risk Assessment
- Exposure Assessment
- GHS Hazard Assessment
- Epidemiology
- Electromagnetic Field Modeling

## Services

- Exposure & Risk Assessment
- Database Development
- GHS Hazard Assessment
- California Proposition 65
- Renewables

## Education

- M.P.H., Environmental Health and Epidemiology, Boston University School of Public Health
- B.A., Neuroscience and Sociology, Wellesley College

## Jiayang Chien, M.P.H.

### Senior Environmental Scientist

Ms. Chien is a senior environmental scientist specializing in human health risk assessment and exposure science. Her work at Gradient includes human health risk assessments at contaminated sites, critical review of epidemiological and toxicological literature, electromagnetic field modeling for electric utilities projects, and Proposition 65 evaluations. She provides risk assessment support in a variety of contexts, chemical compliance projects, and product safety assessments. Before joining Gradient, Ms. Chien worked as a scientist at an environmental consulting firm, where she conducted human health risk characterizations under state and federal regulatory frameworks in support of site assessment and closure activities.

## Selected Projects

**Human Health Risk Assessment:** Conducted a human health risk assessment using US EPA guidance for a former MGP site currently divided into multiple residential and commercial properties.

**Hazard Assessment:** Performed hazard assessments for various chemicals using data in accordance with United Nations Globalized Harmonized System (GHS) guidelines.

**Risk Assessments for Former Manufacturing Plant:** Conducted human health risk assessments for five sites associated with a former paint manufacturing plant. Evaluated worker and residential exposures to constituents in multiple environmental media.

**Prop 65 Evaluation of Styrene in an Industrial Product:** Evaluated potential worker exposure to styrene from an industrial product. Modeled worker exposure to styrene *via* inhalation and incidental ingestion. Compared estimated intakes to the Prop 65 Safe Harbor Limit.

## Selected Presentations

**Chien, J.** 2017. "Benzo(a)pyrene Toxicity Value Updates Implications for Human Health Risk Assessment." Presented at the Society for Risk Analysis Annual Meeting, Arlington, VA, December 10.

Campe, L; McIntosh, L; **Chien, J.** 2015. "In Flux – A Case Study of Vapor Intrusion Site Transitioning from Active to Passive Sub Slab Depressurization Systems (SSDS)." Presented to the Association for Environmental Health and Sciences (AEHS) Foundation 31<sup>st</sup> Annual International Conference on Soils, Sediments, Water and Energy, Amherst, MA, October 22.