

# Jiayang Chien, M.P.H.

## Senior Environmental Scientist

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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 technical support for litigation cases, chemical compliance projects, and product safety assessments. Before joining Gradient, Ms. Chien worked as a scientist at Woodard & Curran, where she conducted human health risk characterizations under state and federal regulatory frameworks in support of site assessment and closure activities.

### Representative 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.

### Areas of Expertise

- Human Health Risk Assessment
- Vapor Intrusion
- Epidemiology
- Electromagnetic Field Modeling

### Education

M.P.H., Environmental Health and Epidemiology, Boston University School of Public Health

B.A., Neuroscience and Sociology, Wellesley College

### Selected Publications and Presentations

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 31st Annual International Conference on Soils, Sediments, Water and Energy, Amherst, MA, October 22.

