

Allison Killius, MEM, MBA

SENIOR SCIENTIST II

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Ms. Allison Killius is a toxicologist in ToxStrategies' Causation Analysis Practice. She is an experienced project manager in the consulting arena, with expertise in human health risk assessment, technical consulting, litigation, and regulatory advocacy. She holds a Master of Environmental Management degree and an Executive Master of Business Administration degree.

Prior to joining ToxStrategies, Ms. Killius performed more than 50 human health risk assessments studying oral, dermal, and inhalation exposure to dioxins and PCBs, heavy metals, VOCs, PAHs, food flavoring compounds, fragrance compounds, phthalates, electronic nicotine delivery systems (ENDS), petroleum products, asbestos, and talcum powder. Recent work has included providing litigation support in the East Palestine, Ohio, train derailment, serving as project manager and consulting expert for risk assessments of air, water, and soils. In other previous work with an American agrochemical company, she managed a fungicide portfolio of more than 20 active ingredients and conducted fungicide-based risk assessments in support of new product registration, label expansion, and scoping projects.

EDUCATION AND DEGREES EARNED

- 2024 Executive Master of Business Administration
Duke University, Durham, NC
- 2017 Master of Environmental Management, Ecotoxicology and Environmental Health
Duke University, Durham, NC
- 2014 Bachelor of Science, Ecology and Evolutionary Biology
Tulane University, New Orleans, LA

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

2016–present Society of Toxicology (member)

SELECTED PROFESSIONAL EXPERIENCE

Health Science Consulting

Provided toxicological guidance on the potential risks of trace contaminants entering the food supply to a global supplier of food-grade acid products.

Reviewed literature to determine risk of lead take-home exposure in children with parents employed in the lead-acid battery industry.

Assessed potential health risks related to childhood exposure to lead in drinking water in Flint, MI.

Consumer Product Safety

Evaluated consumer product use and urine samples to investigate sources of childhood exposure to phthalates.

Performed toxicological reviews of flavoring compounds utilized in electronic cigarettes via inhalation.

Conducted risk assessments to determine the risk of mesothelioma from the use of cosmetic talcum powder.

Environmental Risk Assessments

Evaluated the human health risks of exposure to PFAS via evaluation of public and private drinking water data compared to the USEPA MCLs.

Analyzed data and conducted risk assessments of air, water, and soil to determine the extent of environmental contamination and potential risk to human health following the East Palestine, Ohio, train derailment.

Assessed potential health risks related to childhood exposure to lead in drinking water in Flint, MI.

Assessed potential silica exposure and health risks associated with frac sand mining operations.

Superfund Site Risk Assessment

Evaluated the human health risks of dioxin-contaminated fish consumption near a Superfund site.

Performed fate and transport analyses via mass balance of dioxins and furans from a Superfund site.

Performed a risk assessment of residential and industrial exposures to heavy metals in coal fly ash disposed at a Superfund site.

Pesticides

Conducted dietary and operator risk assessments of fungicides in support of new product registration and existing label expansion.

Refined the EPA's residential pesticide exposure model in anticipation of increased conservativeness in the regulatory environment.

Reviewed pesticide toxicity studies for data cleaning and QA/QC prior to entry into the EPA's ToxRef Database.

BOOK CHAPTERS

Kougias DG, **Killius A**, Collins J, Russman E, Maddaloni M. 2024. Per- and polyfluoroalkyl substances (PFAS) in drinking water: A retrospective case series with risk assessments. In: Paustenbach DJ, Feinberg (eds), Human and Ecological Risk Assessment: Theory and Practice, Third Edition. Wiley. pp. 337-396, doi: [10.1002/9781119742975.ch7](https://doi.org/10.1002/9781119742975.ch7).

MANUSCRIPTS

Dugas MB, Wamelink CN, **Killius AM**, Richards-Zawacki CL. 2016. Parental care is beneficial for offspring, costly for mothers, and limited by family size in an egg-feeding frog. *Behav Ecol* 27(2):476–483; doi: [10.1093/beheco/arv173](https://doi.org/10.1093/beheco/arv173).

Dugas MB, Halbrook SR, **Killius AM**, del Sol JF, Richards-Zawacki CL. 2015. Colour and escape behaviour in polymorphic populations of an aposematic poison frog. *Ethology* 121(8):813–822; doi: [10.1111/eth.12396](https://doi.org/10.1111/eth.12396).

Killius AM, Dugas MB. 2014. Tadpole transport by male *Oophaga pumilio* (anura: Dendrobatidae): An observation and brief review. *Herpetol Notes* 7:747–749; [published online December 21, 2014](#).

ABSTRACTS AND PRESENTATIONS

Killius A, Finley BL. Contribution of demolition activities to Flint, Michigan, childhood blood lead levels in 2013–2015. Society of Toxicology 60th Annual Meeting, Virtual, 2021.

Killius A, Finley BL. Dioxin and furan congener contributions to blood TEQ in the current NHANES database. Society of Toxicology 59th Annual Meeting, Virtual, 2020.

Killius A, Finley BL. Analyzing the effect of pooled samples on interpreting the NHANES dioxin serum data. Society of Toxicology 59th Annual Meeting, Virtual, 2020.