Samantha Goodman, M.S.

SCIENTIST III

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Ms. Samantha Goodman is a toxicologist within the Causation Analysis practice area at ToxStrategies. She received her master's in Toxicology from Texas A&M University. Before joining ToxStrategies, Ms. Goodman worked at an intergovernmental agency and in the government consulting sector with increasing technical and project management responsibility. She has experience conducting environmental, occupational, toxicological, and human health hazard identification evaluations and risk assessments, including performing scoping and systematic literature reviews. She has evaluated the risks and potential human health impacts related to a variety of exposures, including jet fuels, fluoride, personal care products, 1,3-butadiene, heavy metals, and PFAS. Her skillset includes data management, analysis, and visualization; technical writing; and supporting and managing multidisciplinary scientific working groups.

EDUCATION AND DEGREES EARNED

2021	M.S., Toxicology Texas A&M University, College Station, TX
2019	B.S., Avian Biology; Ecology minor University of Georgia, Athens, GA

CERTIFICATIONS

In Progress	Certified Associate in Project Management (CAPM) Certification Expected December 2025

PROFESSIONAL ASSOCIATIONS

2019-Present Society of Toxicology

SELECTED PROFESSIONAL EXPERIENCE

Human Health and Risk Assessment

Identified, categorized, evaluated study quality, and extracted data for scoping and systematic literature reviews using guidance by federal and state partners and review software such as DistillerSR and HAWC.

Participated in interdisciplinary teams specializing in identifying and quantifying human and environmental health hazard effects.

Trained and utilized artificial intelligence platforms (e.g., Laser AI) to evaluate the state of science for human and environmental health topics.

Data Management and Analysis

Completed qualitative and quantitative analyses for human health hazard and risk assessments utilizing robust research methodology and premier categorization platforms (e.g., PowerQuery, RScript, Tableau).

Technical Project Management

Provided project leadership and technical guidance on multiple interdisciplinary, federal, and private sector projects concurrently to diverse teams of scientists, technicians, and technical writers.

Planned and managed all phases of technical projects from inception through completion while ensuring cost, schedule, quality, and technical performance met client expectations.

Cultivated collaborative partnerships with clients through weekly project status debriefs, agendas, project bulletins, and invited presentations.

PEER-REVIEWED PUBLICATIONS

Goodman S, Chappell G, Guyton KZ, Pogribny IP, Rusyn I. 2022. Epigenetic alterations induced by genotoxic occupational and environmental human chemical carcinogens: An update of a systematic literature review. Mutat Res Rev Mutat Res 789(Jan-Jun):108408; doi: 10.1016/j.mrrev.2021.108408. PMID: 35690411.

Erber L, **Goodman S**, Jokipii Krueger CC, Rusyn I, Tretyakova N. 2021. Quantitative nanoLC/NSI$^+$-HRMS method for 1,3-butadiene induced *bis*-N7-guanine DNA-DNA cross-links in urine. Toxics 9(10):247; doi: 10.3390/toxics9100247. PMID: 34678943.

Erber L, **Goodman S**, Wright FA, Chiu WA, Tretyakova NY, Rusyn I. 2021. Intra- and inter-species variability in urinary N7-(1-hydroxy-3-buten-2-yl)guanine adducts following inhalation exposure to 1,3-butadiene. Chem Res Toxicol 34(11):2375-2383; doi: 10.1021/acs.chemrestox.1c00291. PMID: 34726909.

Kieran TJ, **Goodman SJ**, Finger JW Jr, Thomas JC 4th, Hamilton MT, Tuberville TD, Glenn TC. 2020. Microbiota of four tissue types in American alligators (*Alligator mississippiensis*) following extended dietary selenomethionine exposure. Bull Environ Contam Toxicol 105(3):381-386; doi: 10.1007/s00128-020-02961-3. PMID: 32794125.

OTHER PUBLICATIONS AND REPORTS

Howdeshell K, Taylor K, Rooney A, Walker V, Hall S, **Goodman S**. 2025. Protocol for a Systematic Review of Exposure to Chemicals in Personal Care Products and Fetal Growth. PROSPERO 2025 CRD420251009150. Available from: https://www.crd.york.ac.uk/PROSPERO/view/CRD420251009150.

Department of Veterans Affairs. 2024. Congressionally Mandated Report: Health Effects of Jet Fuels Used by Armed Forces. https://www.govinfo.gov/app/details/CMR-VA1-00189958. *Contributor.*

NTP (National Toxicology Program). 2024. NTP Monograph on the State of the Science Concerning Fluoride Exposure and Neurodevelopment and Cognition: A Systematic Review. https://ntp.niehs.nih.gov/sites/default/files/2024-08/fluoride_final_508.pdf. *Literature screening.*

EPA (U.S. Environmental Protection Agency. 2023. Public Comment Draft—Toxicity Assessment and Proposed Maximum Contaminant Level Goal (MCLG) for Perfluorooctanoic Acid (PFOA) (CASRN 335-67-1) in Drinking Water. EPA Document Number: EPA-822-P-23-005. https://www.epa.gov/system/files/documents/2023-03/PFAS%20HI%20MCLG%20Public%20Review%20Draft%2009%20March%202023.pdf. *Systematic review contributor/assessment author.*

EPA (U.S. Environmental Protection Agency). 2023. Public Comment Draft—Toxicity Assessment and Proposed Maximum Contaminant Level Goal (MCLG) for Perfluorooctane Sulfonic Acid (PFOS) (CASRN 1763-23-1) in Drinking Water. EPA Document Number: EPA-822-P-23-007. https://www.regulations.gov/document/EPA-HQ-OW-2022-0114-0034. *Systematic review contributor/assessment author.*

NIEHS (National Institute of Environmental Health Sciences). 2023. Report: Rapid Scoping Review of East Palestine Ohio Chemicals of Interest. Rapid Scoping Review of East Palestine, Ohio Chemicals of Interest. https://www.niehs.nih.gov/sites/default/files/research/atniehs/assets/docs/east_palestine_report_508.pdf. *Technical support*.

IARC Monographs Volume 130 Group. 2021. Carcinogenicity of 1,1,1-trichloroethane and four other industrial chemicals. Lancet Oncol 22(12):1661-1662; doi: 10.1016/S1470-2045(21)00659-8. PMID: 34774220. *Secretariat member*.

ABSTRACTS AND PRESENTATIONS

Allen B, Heitz E, **Goodman S**, Freedman A, Miller S, Haver C, Snow S, Weinberger K, et al. Understanding the cancer outcomes associated with exposure to jet fuels: A fit-for-purpose systematic literature review. Abstract 4676, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Goodman SJ, Haver C, Snow SJ, Eftim S, Bergeron JG, Vincent-Hall TD. Evaluating the non-cancer health outcomes associated with exposure to jet fuels: A fit-for-purpose systematic literature review. Abstract 3135, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Goodman S. Graduate school: What am I doing here? Dealing with imposter syndrome from the perspective of an early doctoral student. Abstract 1189, Society of Toxicology 60th Annual Meeting, Virtual, March 2021. *Seminar Speaker: Navigating Your Health and Wellness Through Graduate School and Early Career*