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Engineering & Scientific Consulting

Callan Krevanko, M.S.

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Professional Profile

Ms. Callan Krevanko is a Managing Scientist in Exponent's Health Sciences practice. She is dually trained in environmental epidemiology and exposure science and has more than ten years of scientific consulting and research experience. Her work focuses on characterizing exposures and health risks across occupational, consumer product, and community settings. She has evaluated exposures to legacy and emerging chemicals including asbestos, bisphenol A (BPA), ethylene oxide (EtO), per- and polyfluoroalkyl substances (PFAS), titanium dioxide (TiO□), silicon dioxide (SiO□), volatile organic compounds (VOCs), particulate matter, and bioaerosols. She has also supported regulatory compliance for chemicals in consumer and cleaning products, such as 1,4-dioxane, BPA, and benzene.

Ms. Krevanko specializes in respiratory exposures and work-related lung disease, combining detailed exposure assessment with epidemiologic analyses in worker populations. She has evaluated human health risks using personal and area exposure monitoring, critical reviews of the scientific literature, and analyses of population-level health and exposure data. Her peer-reviewed publications span topics including occupational hypersensitivity, cosmetic talc, mesothelioma, hair relaxers, and female reproductive health outcomes.

Academic Credentials & Professional Honors

M.S., Environmental Health, Harvard University, 2020

B.A., Chemistry, Wellesley College, 2018

NIOSH Education and Research Centers (ERC) Graduate Fellow, 2023-2026

International Society of Exposure Science (ISES) Student and New Researcher Outstanding Poster Award, 2025

American Industrial Hygiene Foundation (AIHF) Alice Hamilton Scholarship, 2025

American Society of Safety Professionals (ASSP) Puget Sound Chapter Scholarship, 2025

Cascadia Symposium on Environmental, Occupational, and Population Health Best Technical Abstract Award, 2025

University of Washington Graduate School International Conference Travel Award, 2024

University of Washington Department of Environmental and Occupational Health Sciences International Conference Travel Award, 2024

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Sigma Xi Honors Research Society Inductee, 2018

Honors in Chemistry, Wellesley College, 2018

Prior Experience

Scientist, Exponent, 2020-2021

Senior Scientist, Exponent, 2021-2022

Health Scientist, Benchmark Risk Group, 2022-2024

Senior Health Scientist, Benchmark Risk Group, 2024-2025

Supervising Health Scientist, Benchmark Risk Group, 2025-2026

Professional Affiliations

American Industrial Hygiene Association (AIHA), 2020-present

International Society of Exposure Science (ISES), 2020-present

International Society for Environmental Epidemiology (ISEE), 2025-present

Publications

Krevanko C, Kenleigh D, Ghodsian N, Jansen K, Simpson CD, Sack C. "Cannabis sensitization and allergy in cannabis industry workers, recreational cannabis users, and non-users," Journal of Occupational and Environmental Medicine 2026; 68: 47-53.

Krevanko C and Sack C. "Occupational hypersensitivity to cannabis," Current Opinion in Allergy and Clinical Immunology 2025; 26: 1-5.

Krevanko C, Hernandez AM, Gauthier AM, Vahora MS, Lewis RC, Pierce JS. "Potential influence of cancer history on mesothelioma incidence: An ecologic analysis in the U.S. population," Journal of Public Health 2025; 47: 540-545.

Hernandez AM, Smith SJ, M.S. Vahora, Campbell D, Krevanko C, Lewis RC, and Pierce JS. "Systematic review of the epidemiology of hair relaxer use and hormone-sensitive reproductive outcomes among Black adult women in the United States," Journal of Applied Toxicology 2025; 45: 1394-1416.

Wood K, Damaraju N, Krevanko C, Aberra A, P. Cirone P, Duncan B, Faustman E. "Exposomics in practice: Multidisciplinary perspectives on environmental health and risk assessment," Integrated Environmental Assessment and Management 2024; 20: 891-893.

Miller E, Beckett E, Cheatham D, Comerford Lewis RC, Krevanko C, Mandeva N, Pierce JS. "A review of the mesotheliogenic potency of cleavage fragments found in talc," Toxicology and Industrial Health 2024; 40: 398-424.

Lewis RC, Smith SJ, Krevanko C, Hall ED, Miller EW, Beckett EM, Pierce JS. "Occupational exposure to cosmetic talc and mesothelioma in barbers, hairdressers, and cosmetologists: a systematic review of the epidemiology," Toxicology and Industrial Health 2023; 39: 564-582.

Stanley RH, Kinjo L, Smith AW, Aldrett D, Alt HR, Kopp E, Krevanko C, Cahill K, Haus B. "Gas fluxes and steady state saturation anomalies at very high wind speeds," Journal of Geophysical Research: Oceans

2022; 127: 1-19.

Krevanko C, Stern R, Koutrakis P. "Letter to the editor (masks and COVID-19 transmission)," Journal of the Air & Waste Management Association 2020; 70: 739-744.

Presentations

Zentner S, Krevanko C, Roberts B, DeMott G. Characterizing benzene exposure and petroleum and gasoline workers from 1984-2024. Accepted abstract, poster presentation, AIHA Connect, New Orleans, LA, 2026.

Krevanko C, Simpson CD, Sack C. Cannabis sensitization and allergy in cannabis industry workers, recreational users, and non-users. Oral presentation, Cascadia Symposium, Blaine, WA, 2025.

Krevanko C, Sack C, Simpson CD. Characterizing occupational exposures and respiratory symptoms during cannabis processing activities. Poster presentation, ISES-ISEE Annual Meeting. Atlanta, GA, 2025.

Krevanko C, Birch S, Adetona A, Adetona O, Paulsen M, Sheppard L, Naeher L, Simpson CD. Evaluation of polycyclic aromatic hydrocarbon metabolites as biomarkers for occupational wood smoke exposure in wildland firefighters. Oral presentation, ISES Annual Meeting, Montreal, Canada, 2024.

Lewis RC, Krevanko C, Brown SE, Miller EW. Revisiting asbestos fiber exposure science to inform the characterization of inhalation exposure to matrix-bound particulates during consumer product use scenarios. Poster presentation, AIHA Connect, Phoenix, AZ, 2023.

Krevanko C. Compliance Waiver on New York Limits on 1,4-Dioxane. Oral presentation, Cleaning Products Regulatory Update at Joint Meeting for Household Cleaning Products Association and Worldwide Cleaning Industry Association, Las Vegas, NV, 2021.

Krevanko C, Fitzsimmons K, Pechter E, Sparer-Fine E. Case-based surveillance of work-related lung disease in Massachusetts. Poster presentation, AIHA Connect, 2021.

Morris-Schaffer K, Krevanko C, Gauthier A, Kalmes R. Beyond hazard assessment for your products: Why, When, and How. Oral presentation, PSX (Product Stewardship Society) Annual Meeting, 2021.

Stanley RH, Kinjo L, Smith AW, Alt HR, Krevanko C, Aldrett D, Kopp E, Haus B. Noble gas fluxes reveal links between air-sea gas exchange, bubbles, and the structure of the air-sea interface at high wind speeds. Oral presentation, Ocean Sciences Meeting (AGU), San Diego, CA, 2020.

Krevanko C, Lambert E, Laxague N, Alt HR, Guigand C, Smith AW, Stanley R. Improving models for air-sea gas exchange using measurements of noble gas ratios in the SUSTAIN wind-wave tank. Poster presentation, Ocean Sciences Meeting (AGU), Portland, OR, 2018.

Alt H, Krevanko C, Lambert E, Smith AW, Haus B, Stanley R. Examining the effect of air-sea gas exchange on dissolved oxygen concentrations at varied physical conditions in a wind-wave tank. Poster presentation, Americal Chemical Society Meeting and Exposition, Boston, MA, 2018.

Alt HR, Krevanko C, Lambert E, Laxague N, Guigand C, Smith AW, Stanley R. Examining the effect of gas exchange on dissolved oxygen concentration at varying wind, wave, and temperature conditions in the SUSTAIN wind-wave tank. Poster presentation, Ocean Sciences Meeting (AGU), Portland, OR, 2018.

Krevanko C, Alt HR, Lambert E, Stanley R. Investigating gas exchange processes using noble gases in the SUSTAIN wind-wave tank. Poster presentation, Ocean Carbon and Biogeochemistry, Woods Hole Oceanographic Institute, Woods Hole, MA, 2017.

Project Experience

- Managed human health risk assessments for bisphenol A (BPA), benzene, PFOA, and PFOS under Proposition 65.
- Assessed human health risk from exposure to per- and poly-fluorinated substances (PFAS) in synthetic sports turf and residential carpets.
- Managed epidemiological evaluations on cosmetic talc exposure and mesothelioma.
- Managed human health risk assessment for asbestos in friction products.
- Measured workers' exposure to VOCs in industrial and office settings.
- Assessed worker's exposure to titanium dioxide (TiO2) and silicon dioxide (SiO2) during the use of paints and coatings.
- Managed assessment of non-occupational exposure to ethylene oxide (EtO).
- Measured occupational exposure to bioaerosols and VOCs in agricultural settings.
- Provided industry guidance to support compliance with 1,4-dioxane regulations for cleaning products.
- Conducted exposure simulation study to evaluate exposure to asbestos in historical products.

Peer Reviews

Journal of Exposure Science and Environmental Epidemiology (JESEE)