

Natalie VanderNoot, M.P.H.

SCIENTIST II

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Ms. Natalie VanderNoot is a toxicologist in ToxStrategies' Causation Analysis practice area. She recently earned her Master of Public Health degree at Columbia University in Environmental Health Sciences, with a certificate in Molecular Epidemiology. She has worked at ToxStrategies since 2025, conducting literature reviews, data analysis, and assisting in report writing on a variety of client projects. She has worked on evaluations of exposure and risk related to asbestos, heavy metals, solvents, benzene, and PFAS. Her primary interest is in the growing field of microplastics research.

While at Columbia University, Ms. VanderNoot worked on a study of metal exposure in baby food. She conducted a literature review, analyzed laboratory and epidemiological data, and collaborated on a manuscript. She also completed a process-improvement project designed to reduce pharmaceutical hazardous waste in the chemotherapy compounding pharmacy at NewYork-Presbyterian/Columbia Irving Medical Center. Prior to graduate school, she worked in clinical research management and marketing. At BuildClinical (now OpenClinica), she was a Customer Success Associate and managed social media campaign launch, contract budgets, and participant recruitment success for research studies at academic institutions. At the University of California, Los Angeles, she was a Research Associate on a study that aimed to identify predictors of antidepressant treatment outcomes in adolescents. She collected data via clinical interviews and specimen collection, conducted social stress tests, recruited and screened participants, and managed regulatory compliance. Her undergraduate research internships spanned literature reviews, qualitative data collection, and data analysis in the areas of the gut microbiome and chronic liver disease.

Ms. VanderNoot has presented her research and policy analyses at scientific meetings. At ToxStrategies, Ms. VanderNoot supports research and development for expert witness reports and is investigating the growing role of microplastics in human health and the environment.

EDUCATION

- 2026 M.P.H., Environmental Health Sciences (certificate: Molecular Epidemiology)
Columbia University, New York, NY
- 2022 B.S., Biology (minor: Health, Disease, and Culture)
George Mason University Honors College, Fairfax, VA

HONORS/AWARDS

- 2024 Public Health Merit Award, Columbia University Mailman School of Public Health
- 2022 Biology Honors Award, George Mason University Biology Department
- 2020 Schwartzstein Outstanding Achievement Award, George Mason University Honors College
- 2018 University Scholar, George Mason University Honors College

SELECTED PROFESSIONAL EXPERIENCE

Clinical and Environmental Health Research

Conducted a literature review and exposure assessment of metals in baby food as part of the Columbia Center for Children's Environmental Health. Worked to collect clinical data through K-SADS patient interviews, Epic medical record review, biological sample collection, conducting psychological stress tests, and survey administration. Also coordinated compliance with university, state, and federal National Institutes of Health (NIH) data management, participant safety, and clinical practice guidelines. Developed REDCap instruments for long-term use.

Project Management

As a customer success associate for a clinical study digital marketing company, managed operations and optimization of nearly 100 advertising campaigns for clinical research studies run by academic investigators. Initiated collaboration between primary investigators (PIs), research staff, and marketing experts to create and revise digital marketing materials. Coordinated development of materials in preparation for client IRB submission and ensured timely campaign launches. Monitored campaign performance and targeted key indicators of campaign success to ensure a strong pipeline of advertisement impressions to trial enrollments for clients. Developed a novel evidence-based audience targeting strategy to improve response quality. Later worked to create digital research recruitment campaign materials as a contract content creator.

ABSTRACTS

Kallman-Price J, **VanderNoot N**, Escheik C, Austin P, Estep JM, et al. 2021. Assessment of secondary sarcopenia in chronic liver disease: How good are our criteria measures? *Gastroenterology* 160(6):S-829.

Kallman-Price J, **VanderNoot N**, Escheik C, Austin P, Estep JM, et al. 2021. Principal components analysis (PCA) in chronic liver disease (CLD) reveals three component model highlighting discrete contributions by sarcopenia criteria measures and serum myokines. *Gastroenterology* 160(6):S-762.

Estep JM, **VanderNoot N**, Kallman-Price J, Austin P, Escheik C, et al. 2021. Circulating oncostatin concentrations are lower in NAFLD patients compared to chronic hepatitis-C patients or controls. *Gastroenterology* 160(6):S-783-784.

Kallman-Price J, **VanderNoot N**, Escheik C, Austin P, Estep JM, et al. 2021. Association of sarcopenia, fatigue, and serum myokines in patients with chronic liver disease. *Gastroenterology* 160(6):S-778-779.

Karrar A, **VanderNoot N**, Kallman-Price J, Austin P, Escheik C, et al. 2020. Lower human activity profiles are associated with higher fatigue score in patients with non-alcoholic fatty liver disease (NAFLD) and hepatitis C virus (HCV). *Hepatology* 72(S1):p851.

Gerber NL, Paik J, Younossi E, **VanderNoot N**, Golabi P, Younossi Z. 2020. Association between dietary factors and sarcopenia in patients with non-alcoholic fatty liver disease. *Hepatology* 72(S1):p1045A.

PRESENTATIONS

VanderNoot N. Growing the nursing assistant workforce through expansions to the Nurse Corps Program. American Public Health Association Annual Meeting, Boston, MA, November 2022.

VanderNoot N, Weinstein A. Does chronic liver disease associate with changed levels of brain derived neurotrophic factor? George Mason University OSCAR Highlights, Fairfax, VA, May 2022.

VanderNoot N, Weinstein A. Depressive symptoms and blood analytes in chronic liver disease patients—Is there an association? George Mason University Celebration of Scholarship, Fairfax, VA, December 2021.

Kallman-Price J, **VanderNoot N**, Escheik C, Austin P, Estep JM, et al. Assessment of secondary sarcopenia in chronic liver disease: How good are our criteria measures? Digestive Disease Week, Virtual, May 2021. *Poster with Distinction*

VanderNoot N, Gerber NL, Kallman-Price J. Criteria for the identification of sarcopenia and the relationship with fatigue. National Council for Undergraduate Research, Virtual, April 2021.

VanderNoot N, Short MI, Fongang B. Gut microbiome meta-analysis in Parkinson's disease. National Council for Undergraduate Research, Virtual, April 2021.

VanderNoot N, Gerber NL. Defining sarcopenia and measuring the effects of muscle loss. George Mason University Celebration of Scholarship, Virtual, December 2020.

VanderNoot N, Short MI, Fongang B. Gut microbiome meta-analysis in Parkinson's disease. Departmental talk, University of Texas Health Sciences Center, Glenn Biggs Institute for Alzheimer's and Neurodegenerative Disease, Virtual, November 2020.

Karrar A, **VanderNoot N**, Kallman-Price J, Austin P, Escheik C, et al. Lower human activity profiles are associated with higher fatigue score in patients with non-alcoholic fatty liver disease (NAFLD) and hepatitis C virus (HCV). American Association for the Study of Liver Diseases Liver Meeting, Virtual, November 2020.

Adibah N, **VanderNoot N**, Pollack A, Lee Y, McCombs M, et al. Gestational effects of traffic pollution in the DC metro area. Virginia Public Health Association Conference, Fairfax, VA, March 2019.

VanderNoot N, Christianson A, Schmieder A, Yeung N, Tilden A, Graber J. Unexpected, study-dependent variation in larval zebrafish pathways: Transcriptome metadata analysis on the effects of environment and/or genetics. MDI Biological Laboratory Student Symposium, Bar Harbor, ME, August 2018.