

Kelsi Perttula, PhD
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Education

UC Berkeley; School of Public Health Ph.D., Environmental Health Sciences	Berkeley, CA December 2017
San Jose State University M.S., Chemistry	San Jose, CA May 2011
UC Berkeley; College of Chemistry B.S., Chemistry	Berkeley, CA May 2003

Research & Laboratory Experience

Assistant Professor Department of Public Health	California State University East Bay August 2022 - Present
<ul style="list-style-type: none">{ Establishment of an independent research program{ Research projects underway include review of epidemiological relationships between modifiable exposures and Parkinson's Disease.{ Continued collaboration with UC Berkeley exposure lab for air pollution research projects and Mt. Sinai faculty on exposomics projects.{ Incorporate CSUEB undergraduate students into research projects.	
Visiting Scholar Department of Environmental Health Sciences	UC Berkeley July 2019 - July 2021
<ul style="list-style-type: none">{ Analyzed indoor/outdoor particulate matter and carbon-related air quality data.{ Measured the distribution of respirable particles within elevators and calculated concentration decay equations and constants.{ Mentor and collaborate with graduate students.{ Affiliate status presently retained	
Graduate Student Researcher Department of Environmental Health Sciences	UC Berkeley 2012 - 2017
<ul style="list-style-type: none">{ Executed targeted & untargeted LC-MS metabolomic studies of xenobiotic and endogenous exposures in the Rappaport Lab.{ Extracted biological matrices for different classes of molecules based on goal analysis.{ Analyzed high-dimensional LCMS data with data-adaptive variable selection methods.{ Evaluated potential biomarkers for chemical identity and predictive value.{ BSL 2 Laboratory Safety Officer.	

Forensic Scientist
SMCSO Forensic Laboratory

San Mateo County Sheriff's Office
2005 - 2012

{ Examined and analyzed biological, fiber, blood toxicology, and trace evidence. Relevant instrumentation: capillary electrophoresis, polarized light microscopy, FTIR, GCMS. Examined crime scenes. BSL 2 Laboratory Safety Officer. Qualified expert witness in San Mateo, Solano, and Alameda county courts.

Teaching Experience

Assistant Professor

California State University East Bay

- § **Perttula, K**; Schi man, C; Edmands, WMB; Petrick, L; Grigoryan, H; Cai, X; Gunter, MJ; Naccarati, A; Polidoro, S; Dudoit, S; Rappaport, S; Untargeted lipidomic features associated with colorectal cancer in a prospective cohort, *BMC cancer*, 18 (1), 2018.
- § Petrick, L; Edmands, WMB; Schi man, C; Grigoryan, H; **Perttula, K**; Yano, Y; Dudoit, S; Whitehead, T; Metayer, C; Rappaport, S; An untargeted metabolomics method for archived newborn dried blood spots in epidemiologic studies, *Metabolomics*, 13 (3), 27, 2017.
- § **Perttula, K**; Edmands, WMB; Grigoryan, H; Cai, X; Iavarone, AT; Gunter, MJ; Naccarati, A;