

**Kelsi Perttula, PhD**  
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## Education

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

## Research & Laboratory Experience

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

**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;