

EXPERIENCE

SCS Global Services, Emeryville, CA

Contract Technical Associate
Technical Associate

May 2012 – Present
January 2011 – May 2012

- ISO 9001 lead auditor for indoor air quality and level certifications
- Conducted international and domestic audits of manufacturing facilities to evaluate point-source and indoor air quality emission sources
- Responsible for sample collection, modeling, and reporting results
- Staff trainer for material emissions and air quality modeling

Institute of Arctic and Alpine Research, Boulder, CO

2008-2009

Professional Research Assistant

- Conducted research on collection methods for biogenic sesquiterpene emissions
- Worked on a joint INSTARR - NOAA Global Monitoring Division program to analyze trace concentrations of atmospheric pollutants at remote international sites

Desert Research Institute, Reno, NV

2006-2008

Graduate Research Assistant

- Research team member for CARB's Harbor Communities Monitoring Study.
- Conducted field operations for aerosol characterization research in Great Smoky Mountains National Park, Tennessee (see publications)
- Analyzed chemical samples and data for the Organic Analytical Laboratory at DRI

EDUCATION

DevBootcamp, San Francisco, CA

2013

Ruby on Rails, JavaScript, jQuery, RSpec, HTML5, Advanced CSS

University of California, Berkeley, Berkeley, CA

2010

Environmental Engineering and Fluid Mechanics coursework

University of Nevada, Reno, NV

2008

M.S. in Atmospheric Science

The Colorado College, Colorado Springs, CO

2004

B.A. in Environmental Science; Minor in Ecological Building Design

Alpha Lambda Delta Honor Society

Kellogg grant recipient to backpack the 3100 mile Continental Divide Trail

2003

Teaching assistant for atmospheric chemistry and physics course

RELATED SKILLS

Programming/Web Development: Ruby/Rails, Python, JavaScript, SQL, jQuery, HTML5, Advanced CSS

Software: Microsoft Office, MATLAB, LabVIEW, ArcView 3, ArcGIS 9, data acquisition systems

Instrumentation: GC/MS/FID/PID, HPLC, Thermal Desorption, Passive and Active Adsorbent Collection Systems, NO_x/O₃/SO₂/VOC continuous analyzers, Hi-Vol Aerosol Samplers

PUBLICATIONS

J. Brooks Mason, Eric M Fujita, David E Campbell, Barbara Zielinska, "Evaluation of Passive Samplers for Assessment of Community Exposure to Toxic Air Contaminants and Related Pollutants", Environmental Science and Technology, Volume: 45, March 2011

D. Lowenthal, Zielinska, Mason, et al, "Aerosol characterization studies at Great Smoky Mountains National Park, summer 2006", Journal of Geophysical Research, VOL. 114, April 2009

B. Mason, Zielinska, Campbell, and Fujita, "Passive Air Sampling for Organic and Inorganic Pollutants under Environmental Stresses", Presented at Air and Waste Management Association Conference, 2006