

Brooks Mason

Ruby on Rails Developer | Environmental Scientist | brooksmason@gmail.com

EXPERIENCE

SCS Global Services, Emeryville, CA

January 2011 – Present

Contract Technical Associate

Technical Associate

- ISO 9001 lead auditor for indoor air quality and sustainability certifications
- Conducts international and domestic audits of manufacturing facilities related to sustainability measures, quality management systems, and indoor air quality emission sources
- Models indoor air quality emission factors from various materials and products
- Trains staff on 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
- Collaborated on a joint INSTARR - NOAA Global Monitoring Division program to analyze trace concentrations of atmospheric pollutants at remote international sites
- Analyzed samples and maintained atmospheric measurement instrumentation

Desert Research Institute, Reno, NV

2006 – 2008

Graduate Research Assistant

- Research team member for the CARB sponsored Harbor Communities Monitoring Study. Responsibilities included planning, field work, laboratory analysis, data analysis and communication of research results
- Conducted field operations for aerosol characterization research at Great Smoky Mountains National Park, Tennessee
- Analyzed chemical samples and data for the Organic Analytical Laboratory

SKILLS

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

Software: Word, Excel, PowerPoint, MATLAB, ArcView 3, ArcGIS 9

Instrumentation: GC/MS/FID/PID, HPLC, passive and active adsorbent collection systems, NO_x/O₃/SO₂/VOC continuous analyzers, cyclonic aerosol samplers

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EDUCATION

DevBootcamp , San Francisco, CA Web Development and Software Engineering	2013
University of California, Berkeley , Berkeley, CA Environmental Engineering and Fluid Mechanics coursework	2010
University of Nevada, Reno , Reno, NV M.S. Atmospheric Science	2008
The Colorado College , Colorado Springs, CO B.A. Environmental Science Minor in Ecological Design <ul style="list-style-type: none">• Alpha Lambda Delta Honor Society• Ritt Kellogg Grant recipient to backpack the Continental Divide Trail• Teaching assistant for Atmospheric Chemistry course	2004
School for International Training , Belém, Brazil <ul style="list-style-type: none">• Amazonian Ecology and Natural Resource Management• Thesis Project: Micro-scale Wind Energy in Coastal Pará State	2002

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

Fujita, E.M., D. Campbell, B. Mason and B. Zielinska, Harbor Community Monitoring Study - Saturation Monitoring. Final report submitted to State of California Air Resources Board, Research Division, Sacramento, CA, December 9, 2008.

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