

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

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| 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