

# Joseph J. Hamman, MSCE, PE

342 NE 54<sup>th</sup> Street

Seattle, WA 98105

(206) 498 - 5497

jhamman1@u.washington.edu

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**Objective** Seeking a challenging full-time position with an emphasis in Water Resources and/or Climate Science.

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**Summary**

- An enthusiastic and adventurous civil engineering graduate student with four years professional experience in water resources; ready to take on responsibility.
- Extensive experience working collaboratively on a wide range of projects; a true team player.
- Capable of applying engineering methods to design and research projects.
- Outstanding writing and communication skills.

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## Career History

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### **Research Assistant, Civil and Environmental Engineering, University of Washington, Seattle, WA**

*December 2010 – Present*

- *Coupled Land-Atmosphere-Ocean Climate Modeling.* Part of a team of model developers working on the Regional Arctic System Model (RASAM). A fully coupled regional climate model aimed at improving decadal prediction of Arctic state. Contributions include improvements to the land surface model (VIC) and implementation of the streamflow routing model (RVIC).
- *Climate Impacts on Flooding* - Assessing changing water levels and sediment discharge in Puget Sound estuaries associated with both inter-annual climate variability and climate change. The primary goal of the research is to implement and refine predictive models for water level in estuaries that are suitable for climate change assessments.
- *Climate Impacts on Precipitation* - Investigation of changing cool season precipitation statistics throughout the Western U.S. and their relation to river flow, hydropower, and system reliability.

### **Adjunct Professor, Civil and Environmental Engineering, Seattle University, Seattle WA**

*March 2013 – June 2013*

- *Taught CEEGR 371 - Water Resource Engineering I.* An introduction to hydrology and water resource engineering. The course covered physical hydrology, stochastic hydrology, streamflow routing methods, urban hydrologic design and climate change.

### **Water Resource Specialist / Aquatic Scientist, Cardno TEC / Taylor Associates, Seattle, WA**

*January 2009 – July 2014*

- *Water Quality* - participate in water monitoring projects including sampling design, field implementation and data analysis for storm drain systems and natural channels.
- *Monitoring Equipment* - field installation, setup, calibration and operation of automated instruments for hydraulic/hydrologic monitoring and water sampling.

### **Civil Designer II, EIT, Roth-Hill Engineering Partners, Bellevue, WA.**

*August 2007 – February 2009*

- *Water Systems:* system modeling, water main extension and replacement, pump station and well design, municipal plan review and design drafting.
  - *Sanitary Sewer Systems:* system modeling, sewer main extension design, lift station and force main design, design drafting and construction administration.
  - *Storm Systems:* hydrologic and hydraulic modeling, capacity and backwater calculations, design drafting, and stormwater and development plan review.
  - *Paving and Roads:* overlay and new pavement sections associated with project restoration and design drafting.
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## Civil Engineering Intern, DOWL Engineers, Tucson, AZ.

February 2007 – May 2007

- *Commercial Land Development*: permitting, grading, water sewer and stormwater design, writing of technical reports, site visits and design drafting.

## Mountain Guide & Volunteer Staff, Young Life's Beyond Malibu, British Columbia, Canada.

March 2005 - Present

- *Mountaineering Guide*: instructed high school and college age participants on mountaineering skills. Facilitated group experiences in the mountains that focused on perseverance, problem solving, communication and teamwork.
- *Staff Trainer*: trained college age volunteers. Developed and updated training curriculum to implement during the training season.
- *Staff Selection*: worked on a team conducting interviews and selecting staff.

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## Education

### PhD in Civil and Environmental Engineering, Expected Graduation – 2016

*University of Washington, Seattle, WA*

- Emphasis: Coupled Land-Ocean-Atmosphere interactions, Physical Hydrology, Climate Modeling

### Master's of Science in Civil Engineering, 2010 – 2012

*University of Washington, Seattle, WA*

- Emphasis: Climate Change Impacts, Hydrology and Water Resources
- Thesis: Effects of Projected Twenty-First Century Sea Level Rise, Storm Surge, and River Flooding on Water Levels in Puget Sound Floodplains and Estuaries

### Bachelor's of Science in Civil Engineering, 2003 – 2007

*University of Arizona, Tucson, AZ*

- Emphasis: Water Resource and Geotechnical Engineering

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## Certifications, Memberships, Affiliations & Volunteering

Licensed Professional Engineer in Washington State	2013 – Present
Member of the American Society of Civil Engineers	2006 – Present
Member of the American Water Resources Association	2010 – Present
NASCO - PACP certified (Pipe Assessment and Certification Program)	2008 – Present
Department of Ecology- CESCL certified (Certified Erosion and Sediment Control Lead)	2009 – Present
Wilderness Medical Associates – Wilderness First Responder Certification	2005 – Present
American Institute for Avalanche Research and Education – Level 2 Training	2009 – Present