

RESUME

(Updated February 2019)

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Brief Personal Statement:

This resume summarizes my notable achievements, qualifications, and experiences from 2002 through early 2019. I am currently a full time Instructor in the Department of Mathematics of Western Washington University in Bellingham, WA. But things are about to change: in Fall 2019, I will be starting a PhD in Applied Mathematics at CU Boulder.

For the five years (2014-2019) leading up to my graduate studies at CU Boulder, I have been a full-time Instructor in the Department of Mathematics of Western Washington University. Prior to teaching, I earned two Masters degrees—a Masters in Mathematics (2014) at Western Washington University and a Masters in Engineering (2010) from the University of Washington—as well as a Bachelors degree (2006) from Stanford University. I also worked as a professional engineer for three years (2007, 2008, and 2012). I foresee that after I earn my doctorate degree I will pursue a career in academia that combines my gift for teaching with my desire to dive deeper into math and its applications to real-world data.

This resume also touches on some of my many unique non-academic and non-professional interests and experiences, which greatly contribute to my life and person. My main passions are climbing and photography, driven and enriched by a desire to document and share my adventures via various publications and through an increasingly popular website I have designed and developed.

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Education	<p>M.Sc. in Mathematics Project: “Coalescent Theory: A Probabilistic Framework for the Analysis of Genetic Ancestry” Western Washington University; Bellingham, WA June 2014</p> <p>M.Sc. in Civil Engineering Thesis: "Identification of Optimal Evolutionary Intensity Measures for Evaluation of Liquefaction Hazards" University of Washington; Seattle, WA June 2010</p> <p>B.S. (with Distinction) in Engineering Geology and Hydrogeology <i>Minor in Mathematics</i> <i>Minor in Astrophysics/Physics</i> Stanford University; Palo Alto, CA December 2005</p>
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Academic Awards	<ul style="list-style-type: none"> • Outstanding Graduate in Math Dept. (Western Washington University, Class of 2014) • Richard Green Award for Academic Excellence (Western Washington University, 2012-14) • Elias Bond Graduate Fellowship (Western Washington University, 2012-13 and 2013-14) • National Science Foundation (NSF) Graduate Research Fellowship (GRFP) Award (2009-14) • Outstanding Female Engineer, Civil Engineering Dept. (University of Washington, 2009) • Valle Scholarship (University of Washington, 2008-9) • Highbridge / Mary Sunseri Award in Mathematical Problem Solving (Stanford, 2006) • Booth Prize (1st place) for Excellence in Writing (Stanford, 2003) • President's Award for Academic Excellence (Stanford, 2003)
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Work History

INSTRUCTIONAL:

Sept 2014-Present

Adjunct Math Instructor at Western Washington University, WA; Courses taught: Math 112: Algebra; Math 114: Precalc I; Math 115: Precalc II; Math 118: Accelerated Precalc; Math 124: Calculus I; Math 125: Calculus II; Math 224: Multivariable Calculus I; Math 309: Proofs in Discrete Math.

Jan 2015-Apr 2015

Adjunct Math Instructor at Whatcom Community College, WA; Courses taught: Math&141: Precalc I.

Sept 2013-Jun 2014

Teaching Assistant for the Math Department at Western Washington University, WA; including being an instructor (under supervision of a faculty member) for Math 112, 2013-14 school year.

Nov-Dec 2010

Teaching Assistant for a course in Geotechnical Earthquake Engineering, ROSE School of Engineering, Pavia, Italy.

Jan-Jun 2006

Tutor for math, physics, calculus, and chemistry (Grades 9-12, and AP) for the Abbotsford School District, Abbotsford, BC. Also, **Math Tutor** for the First Nations Department, Yale Secondary High School, Abbotsford, BC.

Jan-Dec 2005

Math Tutor for the Upper Series introductory math courses at Stanford University, CA.

PROFESSIONAL:

Oct 2011-June 2012

Full-time engineer, Janicki Industries, Inc., Sedro-Woolley, WA.

Sept 2007-April 2008

Full-time junior geotechnical engineer in training (EIT), Golder Associates, Ltd., Abbotsford, BC.

Oct 2006-May 2007

Full-time junior civil engineer in training (EIT), Dayton & Knight, Ltd., Abbotsford, BC.

OTHER:

May 2011

Short contract project involving **photography** of rock samples and artifacts as well as **graphic design** and **website design** tasks for Nubian Resources, Ltd., Abbotsford, BC.

Interests and Experiences

EXTRACURRICULAR PASSIONS:

- **Climbing.** I have climbed to numerous rugged summits spanning the western US and Canada.
- **Photography.** My specialties are night photography and aerial photography. Several of my photographs (and related articles) have been published in various guidebooks and magazines, and I give occasional presentations and night photography workshops.
- **Personal website.** It is important for me to both document and share my unique experiences, passions, and discoveries. To this aim, I have designed and developed a personal website, which has become increasingly popular over the years; URL: <http://www.stephabegg.com>.

SOME LIFETIME EXPERIENCES:

- Designing and then participating in building my parents' retirement home. 2005-2011.
- A 2-month, 15,000-mile solo road trip around the United States to follow and photograph the Spring bird migration. Spring 2008.
- Although I was born in and my family is from Washington, I have lived in Israel (3 years), Ohio (5 years), Indiana (3 years), British Columbia (8 years), and California (4 years), before finally settling in Washington, where I have resided since 2008. Living in multiple locations and countries has provided a broader worldview, as well as a wider range of experiences and opportunities.

Publications

STATISTICAL/SCIENTIFIC STUDIES:

- "Statistical Study: Mt. Rainier Climbing and Accident Data," NPS Data, 2011.
- "Mountaineering Accident Statistics," American Alpine Club data tables, 2010.
- "Supercenters, Hamburgers, and Coffee: Using density-equalizing cartograms to display the distribution of Walmarts, McDonalds, and Starbucks in the US," 2010.
- "Are Summits Titled by Topography or Whim: A Multinomial Logistic Regression Study on Mountains, Mounts, and Peaks," 2010.
- "Clouds," an online article on cloud types and atmospheric phenomena, with photos. 2010.
- "Night Photography Physics to Photos," an online article explaining the technical aspects of night photography and illustrating these principles with my own photography.

ARTICLES:

- "Vesper Peak Accident/Rescue, Sept 2010," *Accidents in North American Mountaineering 2011*, American Alpine Club.
- "Receding Glaciers, Receding Climbs," *2010 Northwest Mountaineering Journal, Issue 7*.
- "Mt. Terror Accident Report, July 2009," *Accidents in North American Mountaineering 2010*, American Alpine Club.
- "The Traverse of a Lifetime: A High Ridgeline Tour around Mount Olympus," *2008 Northwest Mountaineering Journal, Issue 5*.
- "Following in My Parents' Boottracks." *Stanford Alpine Club Journal 2005-6*, Stanford Univ., CA.

PHOTOGRAPHY:

- Photos in several guidebooks, compilations, magazines, etc. A complete listing is on my website.

References

ACADEMIC:

- Amites Sarkar, PhD **amites.sarkar@wwu.edu** **360.650.7569**
Professor, Dept. of Mathematics, Western Washington University, WA.
- Tjaling Ypma, PhD **tjaling.ypma@wwu.edu** **360.650.3785**
Professor and Chair, Dept. of Mathematics, Western Washington Univ., WA.
- David Hartenstine, PhD **david.hartenstine@wwu.edu** **360.650.6520**
Associate Professor, Dept. of Mathematics, Western Washington University, WA.
- Pedro Arduino, PhD **parduino@u.washington.edu** **206.543.6777**
Graduate Advisor and Professor, Dept. of Civil Engineering, University of Washington, WA.
- David D. Pollard, PhD **dpollard@stanford.edu** **650.723.4679**
Morris Professor, Dept. of Geological and Environ. Sciences, Stanford University, CA.

PROFESSIONAL:

- Brian Mylleville, PhD, PEng. **brian_mylleville@golder.com** **604.850.8786**
Principal, Senior Geotechnical Engineer, Golder Associates Ltd., Abbotsford, BC.
- Graham Chisholm, A.C.I.S. **graham@nubianr.com** **604.859.3007**
President and CEO, Nubian Resources Ltd., Abbotsford, BC.

OTHER:

- Doug McKeever **dougmckeever@gmail.com** **360.393.8046**
Professor (emeritus), Geology and Oceanography, Whatcom Community College, Bellingham, WA.
- John Scurlock **j.scurl.0490@gmail.com** **360.739.9336**
Pilot and aerial photographer; Firefighter/paramedic, Bellingham Fire Dept./Whatcom Medic One, WA.
- Roger Beckett **rogbeckett@wavecable.com** **360.830.4055**
Retired Supervisory Industrial Hygienist; currently Search and Rescue Coordinator for Olympic Mountain Rescue and volunteer with Kitsap County Dept. of Emergency Management, WA.