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SUMMARY

- Hard-working, self-starter and PhD graduate with 7+ years of research experience with cleaning data, coding and application of numerous analysis methods, and interpreting results culminating in 6 scientific articles.
- Effective collaborator and communicator in diverse team settings with 18 professional conference contributions and 1 award-winning conference presentation.
- Adaptable problem-solver who acquires additional skills, where necessary, to surmount new challenges and continuously grow skill set.

WORK EXPERIENCE

Graduate Researcher

Sept. 2012 - Mar. 2018

Portland State University, Portland, OR

- Managed and independently executed 2 major research projects through the full project life cycle including data collection, data cleaning, computer programming of analysis methods, creation of data visualizations and interpretation of results. Projects culminated in 2 peer-reviewed scientific articles.
- Collaboration with international/domestic colleagues in performing novel experiments and composing journal articles resulting in 2 peer-reviewed publications.
- Presentation of exploratory and descriptive data analyses at professional conferences leading to 14 conference contributions, 2 invited talks, and 1 conference presentation award.

Undergraduate Researcher

Dec. 2010 - Aug. 2012

Portland State University, Portland, OR

- Design of experimental equipment as well as coordination of purchasing and fabrication needed to create the designed devices.
- Analysis of experimental results culminating in 4 presentations at professional conferences.
- Interpretation of analyses of experimental results in order to provide insight into performance of industry-based computational models of laptop cooling and provide recommendations for improvement of computational models.

High School Physics & Chemistry Teacher (New York City Teaching Fellow)

Jun. 2006 - Jun. 2009

Harry S. Truman High School, Bronx, NY

- Plan and implement curriculum aimed at diverse student populations with a range of quantitative and communication skills resulting in a school-wide teaching award.
- Coordinate with parents, school administrators, and fellow teachers to track and generate feasible plans to improve student achievement.
- Manage, supervise, and instruct high school students in physics and chemistry resulting in highest student passing rate on state-wide examinations than in the previous 5 years.

EDUCATION

Portland State University , Portland, OR	PhD Mechanical Engineering, GPA 3.80	Mar. 2018
Portland State University , Portland, OR	BS Mechanical Engineering, GPA: 3.71	Jun. 2012
University of Pennsylvania , Philadelphia, PA	MS Chemistry, GPA: >3.7	Aug. 2006
Oregon State University , Corvallis, OR	BS Chemistry, GPA: 3.69	Jun. 2004

TECHNICAL SKILLS

Software: Python (NumPy & Pandas), MATLAB, R, PostgreSQL, L^AT_EX, Adobe CS, Microsoft Office, Windows.
Relevant Technical Coursework: Linear Algebra, Statistics (200-level & 400-level), Design of Statistical Experiments, Differential Equations (Ordinary & Partial), Calculus (Differential, Integral, & Vector), Numerical Methods in Computing.

SELECTED HONORS AND AWARDS

Competent Communicator Award , Toastmasters-Speakers by Design	2016
Outstanding Student Paper Award , American Geophysical Union Fall Meeting	2015
Maseeh Fellowship , Portland State University College of Engineering	2013 - 2014
End-of-the-Year Teaching Award , Harry S. Truman High School	2008
Colleen Spurgeon Scholarship , Oregon State University Department of Chemistry	2003

PERSONAL ACTIVITIES

Mountaineering, Backpacking, Toastmasters, Volunteering with the Mazamas (Portland-based mountaineering organization) and Volunteering with Potluck in the Park (organization provides free meals to individuals in need).