BRANDEN OLSON

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EDUCATION

Doctor of Philosophy, Statistics   2016 - Present
University of Washington, Seattle

Master of Science, Applied Mathematics   2015 - 2016
University of Colorado, Boulder
Thesis: Stochastic weather generation with approximate Bayesian computation

Bachelor of Science, Applied Mathematics   2011 - 2016
University of Colorado, Boulder
Summa cum laude
Minors: Computer Science, Philosophy

WORK EXPERIENCE

Data Scientist Intern   Summer 2016
Paysa, Inc.
Boulder, CO

Advanced Analytics Intern   Summer 2015
Seagate Technology
Longmont, CO

Software Engineering Intern   Summer 2013 - Fall 2014
Spectra Logic
Gunbarrel, CO

RESEARCH EXPERIENCE

Predoctoral Research Associate   Jun 2017 - Present
Adviser: Erick Matsen
Matsen Group, Fred Hutchinson Cancer Research Center

Predoctoral Research Associate   Sept 2016 - Jun 2017
Adviser: Peter Guttorp
Department of Statistics, University of Washington

Research Assistant   August 2014 - May 2016
Adviser: Will Kleiber
Department of Applied Mathematics, University of Colorado

Undergraduate Research Assistant   August 2013 - May 2014
Adviser: Juan Restrepo
Department of Applied Mathematics, University of Colorado

PUBLICATIONS

[2] **Olson, B.** and Kleiber, W. (2017). "Approximate Bayesian computation methods for daily spatiotemporal precipitation occurrence simulation." *Water Resources Research*, to appear.

[1] **Olson, B.** (2016). "Stochastic weather generation with approximate Bayesian computation." Master's thesis.

TALKS

Stochastic precipitation generation with approximate Bayesian computation   April 2016
American Statistical Association Co/Wy Chapter Spring Meeting
National Center for Atmospheric Research, Boulder, CO

*Simulation of local temperature and precipitation occurrence using approximate Bayesian
computation*   February 2015
Front Range Applied Mathematics Student Conference
University of Colorado, Denver, CO

TEACHING EXPERIENCE

Teaching Assistant   Spring 2016
APPM 1350: Calculus I for Engineers
University of Colorado, Boulder

Teaching Assistant   Fall 2015
APPM 1350: Calculus I for Engineers
University of Colorado, Boulder

Learning Assistant   Spring 2013
APPM 1360: Calculus II for Engineers
University of Colorado, Boulder

Learning Assistant   Fall 2012
APPM 1350: Calculus I for Engineers
University of Colorado, Boulder

TECHNICAL STRENGTHS

Programming Languages: Heavy experience with R. Experience with Python, Mathematica, C/C++, Matlab, Ruby, Java, and Scala

Software/Tools: Linux, Vim, LaTeX, Bash, Git, OpenGL, XML

Web Development: Ruby on Rails, HTML/CSS, some Javascript and JQuery

Databases: SQL

Development Process: Agile, Rally, Kanban

GRANTS AND FUNDING

NSF STAT ATM OCEAN 62-3132, $21,546   Sept 2016 - June 2017

NST EXTREEMS DMS-1407340, $9,500   Aug 2014 - May 2016

ACADEMIC AWARDS AND HONORS

Department Fellowship   Fall 2016
Department of Statistics, University of Washington

Summa cum laude   Spring 2016
University of Colorado
Achieved cumulative GPA of 3.9 or higher

Nominee for Outstanding Graduate for Research   Spring 2016
College of Engineering and Applied Science, University of Colorado

Dean's List   Fall 2011 - Spring 2015
College of Engineering and Applied Science, University of Colorado
Achieved semester GPA of 3.6 or higher

ACADEMIC SERVICE AND AFFILIATIONS

Water Resources Research, Journal Referee   2017 - Present

Space-Time Reading Group, Co-Director   Spring 2017
University of Washington

Space-Time Reading Group, Member   Fall 2016 - Present
University of Washington

Engineering Fellows, Member   Fall 2013 - Spring 2015
University of Colorado

First Generation Program, Member   Fall 2011 - Spring 2015
University of Colorado