

MICHAEL PEARCE

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University of Washington, Department of Statistics

Padelford Hall, Box 354322

EDUCATION

University of Washington, Seattle, WA

Sept. 2018 - Present

Ph.D. (anticipated) in statistics

Coursework in statistical inference, machine learning, nonparametric statistics, regression methods, statistical computing, statistical demography, and spatial statistics.

Passed first-year theory exam.

St. Olaf College, Northfield, MN

Sept. 2013 - May 2017

B.A. in mathematics; concentration in statistics

Graduated *summa cum laude*; member of *Phi Beta Kappa* (liberal arts honor society); member and treasurer of *Pi Mu Epsilon* (mathematics honor society)

RESEARCH EXPERIENCE

Research Assistant

Sept. 2019 - Present

University of Washington - Department of Statistics

Simulation Study of Nonparametric Clustering Methods

Supervisor: Werner Stuetzle

Statistical Fellow

Sept. 2016 - Sept. 2017

St. Olaf College - Center for Undergraduate Research

Unsupervised Algorithm for Increased Spatial Resolution in Molecular Tagging Velocimetry Images

Supervisors: Rodrigo Sanchez-Gonzalez and Matthew Richey

WORK EXPERIENCE

Boeing Research and Technology

June - Dec. 2019

Applied Statistics Intern

- Aided in the development and testing of a non-parametric tail estimation problem with censored data.
- Performed regression, ANOVA, and simulation studies to verify manufacturing quality and safety.
- Developed a generalized test plan to qualify robotic visual inspection systems.
- Coded and implemented new statistical and UI features in a Boeing web app.

Deloitte LLC

Oct. 2017 - Aug. 2018

Analytics Consultant

- Verified the accuracy and completeness of complex statistical models using SAS, R, Python, and Excel for a global bank to ensure compliance with regulatory financial stress-testing.
- Analyzed anti-money laundering policy, practices, and legal requirements for a global bank, ultimately implementing changes to an existing customer on-boarding system.

PUBLICATIONS

Pearce, M., Sparrow, Z., Mabote, T., and Sanchez-Gonzalez, R. *stoBEST: An Efficient Algorithm for Increased Spatial Resolution in Two-Component Molecular Tagging Velocimetry*. In preparation.

TEACHING EXPERIENCE

Teaching Assistant

University of Washington

Statistics 311

Fall 2018, Winter 2019

Statistics 342

Spring 2019

Statistics 220

Fall 2019

Supplemental Instruction Leader

St. Olaf College

Calculus II

Spring 2017

Modern Computational Mathematics

Spring 2017

READING GROUP AND LAB PARTICIPATION

Applied Bayesian and Computational (ABC) Statistics Working Group

Sept. 2019 - Present

Statistics Education Reading Group

Sept. 2019 - Present

Statistical Learning Applied to Biostatistics (SLAB) Lab

Sept. 2019 - Present

Space-Time Reading Group

Jan. - May 2019

SKILLS

Programming

R (fluent), Python and SQL (proficient)

Languages

English (native), Spanish (proficient)