William Zachary Horton

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- www.linkedin.com/in/wzhorton
- wzhorton.github.io/portfolio

Education

Brigham Young University

Aug. 2017 - Apr. 2019

Master of Science - MS, Statistics (Integrated MS/BS)

Provo. UT

- Overall GPA: 4.0

- Department Scholarships: Fall 2017 - Winter 2019

Brigham Young University

Jan. 2015 - Apr. 2019

Bachelor of Science - BS, Actuarial Science

Provo. UT

- Overall GPA: 3.94, Major GPA: 4.0

- Minor: Mathematics

- Dean's List: Fall 2015 - Winter 2018

- University Scholarships: Summer 2016 - Winter 2017 - Elrod C. Leany Scholarship: Fall 2016 - Winter 2017

Master's Thesis

Title: Template Priors in Bayesian Curve Registration

Advisors: Garritt L. Page, C. Shane Reese

Description: In curve registration, it is common that expert information is available regarding likely location of certain curve features. We propose a method that coherently includes this information in a Gaussian process prior that is embedded within a hierarchical model. We compare this method to other landmark matching techniques and find that it performs better when the number of curve features is relatively small.

Publication: 85% Complete. Intended submission to Technometrics.

Relevant Experience

Research Assistant Sept.2016-Current

BYU Statistics Department

Provo, Utah

- Research focused on functional data analysis and curve clustering
- Studied Bayesian implementations of DPMMs and curve registration
- Applications focused on injury classification and supernova identification
- Won second place in the Three Minute Thesis (3MT) competition at the college level
- Collaborated with BYU Exercise Science Deptartment (Dr. Matthew Seeley)
- Presented in student research conferences: BYU 2016-2018, SUU 2018

Teaching Assistant – Graduate

BYU Statistics Department

Aug.2018-Current

Provo. Utah

- Teaching Assistant for two graduate level courses.Duties included holding regular office hours and grading assignments
- **Actuarial Intern** May.2017-Aug.2017

Aon

Denver, Colorado

- Interned in Health and Benefits for 14 weeks
- Conducted detailed accuracy checks for coworkers
- Acquired working knowledge of current health insurance practices
- Led the transfer of a large pricing model to Aon's web-based software

Course Assistant: Introductory Statistics Online

Aug.2016-Dec.2016

BYU Statistics Department/BYU Independent Study

Provo. Utah

- Headed the launch of a hybridized online introductory statistics class
- Chosen for my experience in online teaching with BYU Independent Study
- Trained 6 other TA's on how to conduct virtual lab sessions
- Reviewed new course material for accuracy and clarity