

Brandon P. Pipher

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Education

Kent State University

Kent, OH

MASTER OF SCIENCE IN APPLIED MATHEMATICS

Aug. 2017 - Dec. 2019

- GPA: 3.9
- Advisor: Omar De la Cruz Cabrera
- Thesis: Comparison of Regression Methods with Non-Convex Penalties

University of Akron

Akron, OH

BACHELOR OF SCIENCE IN MATHEMATICS, MINOR IN STATISTICS

Aug. 2013 - May. 2017

- GPA: 3.6
- Graduated *cum laude*
- Member of Pi Mu Epsilon: Mathematics Honorary Society
- Member of Phi Sigma Alpha: Buchtel College of Arts and Sciences Scholastic Honorary Society
- Treasurer of Pi Mu Epsilon (Ohio Nu Chapter): 2016-2017

Skills

Programming R, L^AT_EX, SQL, Python, HTML

Tools Tidyverse, ggplot2, Shiny, Git, Minitab, JMP, MS Excel

Domain Knowledge Statistical Machine Learning, Estimation Theory, Hypothesis Testing, Sequential Analysis

Machine Learning Regression Analysis, Regularization, Clustering (Mixture Models, k-Means, Hierarchical, PCA)

Experience

Kent State University - Department of Mathematical Sciences

Kent, OH

ADJUNCT FACULTY

Aug. 2017 - Present

- Instructor for MATH 11010 Algebra for Calculus: S20, F19, S19, F18, F17
- Instructor for MATH 10775 Algebra for Calculus PLUS: F19
- Assistant Instructor for MATH 11012 Intuitive Calculus: S19, S18
- Assistant Instructor for MATH 11009 Modeling Algebra: F18
- Assistant Instructor for MATH 00021-00022 Basic Algebra I & II: F18
- Lead the integration of a new course environment for the online Algebra for Calculus (Core/PLUS) sequences. Hosted several cross-regional faculty training seminars regarding the newly integrated learning environment.

Mac's Convenience Store

Copley, OH

CUSTOMER SERVICE REPRESENTATIVE

Jan. 2016 - Mar. 2017

- Operated: cashier and pump register, bills counter machine, credit cards machine and lottery machine
- Handled opening and closing of store duties, and ensured space was tidy and ready for business each day
- Regularly communicated with vendors, and assisted with restocking shelving and product displays

Solutions Behavioral Healthcare

Medina, OH

SECURITY OFFICER

Feb. 2015 - Oct. 2016

- Provided periodic safety inspections and patrol service for an overnight Driver-Intervention Program
- Monitored and authorized entrance and departure of employees and participants to guard against theft and maintain security of premises
- Wrote reports of daily activities and irregularities such as equipment or property damage, theft, presence of unauthorized persons, or unusual occurrences

Extracurricular Activity

Lander Analytics

New York, NY

NEW YORK R CONFERENCE

May, 2018

- A three day event focused on workshops, lectures, and presentations focused as a self described "outlet for people to gather and nerd out over statistical programming, especially R."
- Various Science and Industry Analyses, a focus on reproducible research and methodology, iterative approaches to research, and the effectiveness of data-driven workflows and tools to create them.

American Statistical Association (ASA) - Kentucky Chapter

Lexington, KY

SUCCESSFUL DATA MINING IN PRACTICE - SHORT COURSE TAUGHT BY DICK DEVEAUX

Oct. 2018

- Practical, hands-on demo for utilizing statistical engineering and statistical methodology to tackle "Big Data" problems.
- Focused on case-studies stemming from consulting in Science and Industry, and how to use data-mining techniques effectively.
- Emphasized importance of the domain knowledge of the analyst, and the relevance and practicality of the data, for achieving successful results versus applying "powerful" algorithms to large data sets.