Brandon P. **Pipher**

Data Scientist · Statistician · Mathematician

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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

Certifications

Graduate Statistician (GStat)

AMERICAN STATISTICAL ASSOCIATION, ACCREDITATION
Jun. 2020 - Jun. 2028

Skills

Programming	R, LaTeX, SQL, Python
Hard Skills	Statistical Inference, Probability (Measure-Theoretic)
Domain Knowledge	Statistical Machine Learning, Estimation Theory, Hypothesis Testing, Sequential Analysis
Machine Learning	Regression Analysis, Regularization, Decision Trees and Random Forests, Clustering
Tools	Tidyverse, ggplot2, Plotly, Shiny, Git, Minitab, JMP, MS Excel, Tableau, HTML, Regex, RStudio, Spyder, PyCharm, JupyterLab

Experience

Kent State University - Department of Mathematical Sciences
Kent, OH

ADJUNCT FACULTY
Aug. 2017 - Present

- Instructor for various Mathematics courses ranging from Algebra to Calculus.
- 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

Short Courses and Conference Attendance

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 RICHARD DE VEAUX
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.