

# Brandon P. Pipher

DATA SCIENTIST · STATISTICIAN · MATHEMATICIAN

[BrandonPipher.com](https://brandonpipher.com) | [bppipher](https://github.com/bppipher) | [brandonpipher](https://www.linkedin.com/in/brandonpipher)

## Education

### Kent State University

MASTER OF SCIENCE IN APPLIED MATHEMATICS

Kent, OH

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

BACHELOR OF SCIENCE IN MATHEMATICS, MINOR IN STATISTICS

Akron, OH

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

<b>Programming</b>	R, L <sup>A</sup> T <sub>E</sub> X, SQL, Python
<b>Hard Skills</b>	Statistical Inference, Probability (Measure-Theoretic)
<b>Domain Knowledge</b>	Statistical Machine Learning, Estimation Theory, Hypothesis Testing, Sequential Analysis
<b>Machine Learning</b>	Regression Analysis, Regularization, Decision Trees and Random Forests, Clustering, Parallel Computing
<b>Tools</b>	Tidverse, 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 to guard against theft and maintain security of premises
- Maintained reports of daily activities and noted irregularities in normative behavior
- Responded to on-site medical incidents and coordinated with emergency personnel

## Short Courses and Conference Attendance

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### 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.