



# Brandon P. Pipher

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## Education

### Kent State University

M.S. IN APPLIED MATHEMATICS

Kent, OH

2017 - 2019

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

### University of Akron

B.S. IN MATHEMATICS, MINOR IN STATISTICS

Akron, OH

2013 - 2017

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

## Skills

<b>Programming</b>	R, L <sup>A</sup> T <sub>E</sub> X, SQL, Bash, SSH
<b>Front-end</b>	Hugo, HTML5
<b>Tools</b>	Hadleyverse, Shiny, Git, JMP Pro, Minitab
<b>Hard Skills</b>	Mathematics, Statistics, Probability

## Experience

### Kent State University - Department of Mathematical Sciences

ADJUNCT FACULTY

Kent, OH

Aug. 2017 - Dec. 2019

- Instructor for MATH 11010 Algebra for Calculus: S19, F19, F17
- Instructor for MATH 10775 Algebra for Calculus PLUS: S19
- Assistant Instructor for Intuitive Calculus: S18
- Assistant Instructor for Modeling Algebra: F18
- Assistant Instructor for Basic Algebra I & II: F18

## Extracurricular Activity

### Lander Analytics

NEW YORK R CONFERENCE

New York, NY

May. 2018

- A three day event focused on workshops, lectures, and presentations focused on 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

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

Lexington, KY

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.

### University Teaching Council - Kent State University

24TH ANNUAL UTC CELEBRATING COLLEGE TEACHING CONFERENCE

Kent, OH

Oct. 2017

- Series of workshops and lectures focusing on the distinctive blend of teaching and learning that characterizes Kent State — knowledge, insight, responsibility and engagement.

## Honors & Awards

## SCHOLARSHIPS

- Phi Sigma Alpha Scholarship
- Buchtel College of Arts and Sciences Alumni Scholarship
- Venderico Family Scholarship
- Wayne County Community Foundation Scholarship

## Presentations & Seminars

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### Statistics Seminar - Kent State University

*Kent, OH*

#### PRESENTER

*Apr. 2018*

- Presented Topic: [Least Angle Regression](#)
- Least Angle Regression (LARS) relates to the classic model-selection method known as Forward Selection, or “forward stepwise regression”. Given a collection of possible predictors, we select the one having largest absolute correlation with the response and perform simple linear regression of our response on that predictor, forming our new response. We then project the other predictors orthogonally to this new response and repeat the process iteratively.