

Michael Kim

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EDUCATION

University of Florida , Gainesville, FL	<i>Expected: 2022</i>
Ph.D. Statistics	
University of Florida , Gainesville, FL	<i>August 2017 - December 2019</i>
M.S. Statistics	
University of North Carolina at Chapel Hill , Chapel Hill, NC	<i>August 2013 - May 2017</i>
B.S. Statistics B.A. Mathematics	

COURSEWORK

Probability Theory, Inference, GLM, Linear Models, MCMC, Regression Analysis, Design of Experiments, Time Series Analysis, Optimization, Measure Theory, Real Analysis, Matrix Algebra, Partial Differential Equations, Object Oriented Programming, Data Structures and Algorithms, Machine Learning

SKILLS

Languages: R, Python, Java, \LaTeX
Libraries: Scikit-Learn, NumPy, Pandas, dplyr, ggplot, shiny
Statistical Techniques: Network Science, Natural Language Processing, Clustering, Missing Data

RESEARCH EXPERIENCE

Graduate Researcher , University of Florida	<i>August 2019 - Present</i>
- Advised under Michael Daniels	
- Missing data in latent variable models	
Undergraduate Researcher , University of North Carolina at Chapel Hill	<i>January 2016 - May 2017</i>
- Advised under Professor Shankar Bhamidi	
- Network visualization, network centrality analysis, logistic regression, and rank-score model on the citation network of the Supreme Court of the United States (SCOTUS)	
* Exploratory Analysis of the SCOTUS Citation Network: Report , Shiny , GIFs , Code	
* Centrality Analysis of the SCOTUS Citation Network: Report , Visualizations , Code1 , Code2	
- Natural language processing, clustering, and dimensionality reduction on SCOTUS text data	
* Word Contextualization of Various Clusters of the SCOTUS Citation Network: Report , Shiny , Code	

TEACHING EXPERIENCE

Instructor , University of Florida	
FA19:	STA 3032 (Engineering Statistics)
SU18:	STA 2023 (Intro to Statistics I)
Teaching Assistant , University of Florida	
SU19:	STA 3024 (Intro to Statistics II)
FA17, SP18, FA18, SP19:	STA 2023 (Intro to Statistics I)

PRESENTATIONS

ASA DataFest , Duke University	<i>April, 2017</i>
- Presented on how Expedia can better recommend travel locations and vacation package deals based on a user's previous booking information and others' endorsements, through the following:	
* Data cleaning on 11 million observations from a dataset provided by Expedia	
* K-means clustering of 30,000+ travel locations based on endorsement likelihoods	
* Cross validation and logistic regression to accurately predict types of travel from booking information	
PyData Carolinas , Research Triangle, NC	<i>October 2016</i>
- Presented on open-source legal data, graph packages, network structures, centrality measures, and community detection for exploring legal precedent and important SCOTUS cases	
- Presentation with Iain Carmichael: " Open Data, Networks and the Law "	

PUBLICATIONS

Carmichael, I., Wudel, J., **Kim, M.**, Jushchuk, J. (2017). [Examining the Evolution of Legal Precedent through Citation Network Analysis](#) *N.C. L. Rev.*, 96: 227-269. [Code](#)

AWARDS

Grinter Fellowship	<i>August 2017 - Spring 2020</i>
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