BENJAMIN DRAVES

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EDUCATION

Boston University - Boston, MA

Degree expected May 2021

Ph.D. Candidate in Statistics

GPA: 4.0

- Relevant Coursework: Machine Learning, Non/Semi-parametric Data Modeling, Advances in Bayesian Computation, Network Analysis, Probability Theory I/II, Estimation Theory, Hypothesis Testing
- Qualifying Exams: Applied Stat., Probability Preliminary Exams: Mathematical Stat., Applied Stat.

Boston University - Boston, MA

October 2018

Masters in Statistics

GPA: 4.0

• Relevant Coursework: Bayesian Statistics, Computational Statistics, Generalized/Linear Models, Methods for Network Analysis & Graph Algorithms, Stochastic Processes

Lafayette College - Easton, PA

May 2017

B.S. in Mathematics, Summa Cum Laude

GPA: 3.9

• Honors: Departmental Honors with Thesis, Barge Oratorical Prize (most compelling thesis defense), DataFest 2017 Award Recipient, Mitman Mathematics Award (most outstanding mathematics major)

EXPERIENCE

Lead Statistical Consultant

2016 - Present

- BU Consulting: Oversaw a team of 14 masters students working in BU's consulting center. Completed 35 projects for researchers at BU over 10 months. Lead statistical decision making, managed team workflows in weekly lab meetings, and interfaced with clients throughout the project life cycle.
- Freelance Consulting: Clients included Crayola.com, Ryan Center PT Treatment Center, University of Mount Union Academic Affairs, Victualic, Easton Area Public Schools, Easton Area Neighborhood Center.

Data Analyst Intern: National Interstate

June - August 2017

Adapted and implemented a boosted, generalized regression tree to predict claim frequency and severity. Accounted for 42% weight in final implemented model.

Graduate Instructor 2019 - Present

Taught 5 discussion sessions of 30 undergraduate students in an introductory statistics course. Created weekly lectures, exercises, and group activities to reinforce concepts introduced in the main lecture.

Leadership Positions

2017 - Present

BU Student Chapter of the ASA Board Member, BU Network Seminar Organizer, Ignite Student Council

RESEARCH PROJECTS

Multiple Network Embeddings

2018 - Present

Analyzed joint network embedding techniques for heterogeneous networks. We prove concentration and central limit theorems for node embeddings with a focus on consequent inference. Manuscript in preparation.

Denoising Sparse Covariance Matrices

2016 - 2018

Constructed and analyzed iterative smoothing techniques that denoise sparse, positive-definite matrices using spectral methods. Method applied to refining estimates of genetic relatedness. Manuscript submitted.

PROGRAMMING CAPABILITIES

Proficient R, Java, Github, Unix Environment
Intermediate Python, SQL, Mathematica, SAS
Typesetting LaTex, R Markdown, Microsoft Office