Lindsay R. Berry

CONTACT INFORMATION

Department of Statistical Science
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EDUCATION

Duke University, Durham, North Carolina, USA

Ph.D Student, Statistics, (Expected graduation date: May 2019)

Advisor: Mike West, Ph.D.
Relevant Coursework: Linear Models, Probability & Measure Theory, Bayesian & Modern Statistics, Statistical Inference, Statistics Case Studies, Probability & Statistical Models, Multivariate Statistical Analysis, Time Series & Forecasting

University of Texas, Austin, TX, USA

B.S., Mathematics, May 2015

Graduated with Honors in the Dean's Scholars Honors Program
Thesis Advisor: Peter Mueller, Ph.D.

RESEARCH EXPERIENCE

Research Assistant September 2016 - Present

84.51°

PI: Natalia Connolly
Advisor: Mike West
Project: Demand forecasting for low volume daily counts.

Undergraduate Honors Thesis August 2014 - May 2015

University of Texas, Department of Mathematics

Advisor: Peter Mueller
Project: Developed a simulation based method of analyzing seamless phase II/III clinical trials, and compared the results to traditional combination test procedures. Power analyses revealed that implementation of the simulation method would result in larger phase II trials than currently run.

Research Experience for Undergraduates May 2013 - August 2013

University of Minnesota, Institute for Mathematics and its Applications

Advisors: Andrew Beveridge, Ph.D. and Jane Butterfield, Ph.D.
Project: Developed algorithms for pursuit-evasion games in polygons. Our strategy, the rook strategy, allows a pursuer to capture a single evader in a monotone environment. We prove that this strategy is more efficient than an existing algorithm.

WORK EXPERIENCE

Intern May 2014 - August 2014; May 2015 - August 2015
Berry Consultants

SUBMITTED PAPERS

BERRY, L., BEVERIDGE, A., BUTTERFIELD, J., ISLER, V., KELLER, Z., SHINE, A., WANG, J. "Line-of-Sight Pursuit in Strictly Sweepable Polygons" arXiv:1508.07603

Conference Presentations

Invited Talks

ISBIS 2017 (Yorktown Heights, NY) — June 8, 2017
Simulation Control of Seamless Phase II/III Clinical Trials

Contributed Talks

Young Mathematicians Conference (Columbus, OH) — August 9, 2013
Line-of-Sight Pursuit in Monotone Polygons

Poster Presentations

Joint Mathematics Meetings (Baltimore, MD) — January 17, 2014
Line-of-Sight Pursuit in Monotone Polygons

Teaching Experience

Duke University, Durham, North Carolina

Teaching Assistant — *Spring 2016*

Course: Data Analysis and Statistical Inference
Led lab sections for 20-30 students

Memberships

American Statistical Association

Computing Skills

Programming Languages: R, Python, LaTeX
Operating Systems: MacOS, Windows, Linux