

Lindsay BERRY

CONTACT

Ph.D. Candidate at [Duke University](#)
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EDUCATION

2015-PRESENT, FALL 2017	Ph.D. Candidate in STATISTICAL SCIENCE (expected 2019) Master of Science in STATISTICAL SCIENCE Duke University , Durham, NC Adviser: Mike WEST Courses: Bayesian & Modern Statistics, Linear Models, Probability & Measure Theory, Statistical Inference, Statistics Cases Studies, Probability & Statistical Models, Advanced Statistical Computing, Time Series & Forecasting, Multivariate Statistical Analysis, Categorical Data Analysis, Stochastic Processes
2011-2015	Bachelor of Science in Mathematics University of Texas , Austin, TX Graduated with Honors in the Dean's Scholars Honors Program Adviser: Peter MUELLER

RESEARCH EXPERIENCE

SEPT 2016- PRESENT	Research Assistant at 84.51° <i>Advisers: Mike West, Paul Helman</i> Bayesian modeling and forecasting of many count-valued time series. A motivating application is product demand forecasting for the purposes of marketing and inventory management.
AUG 2014- MAY 2015	Undergraduate Honors Thesis University of Texas, Department of Mathematics <i>Adviser: Peter Mueller</i> Thesis: "Simulation Controlled Seamless Phase II/III Clinical Trials" Compared simulation based analysis of seamless phase II/III clinical trials to traditional combination test procedures.
SUMMER 2013	Research Experience for Undergraduates University of Minnesota, Institute for Mathematics and its Applications <i>Advisers: Andrew Beveridge, Jane Butterfield</i> Algorithm development for pursuit-evasion games in polygons.

OTHER EXPERIENCE

- SUMMER 2018 **Data+ Project Manager**
Project: [Co-Curricular Technology Pathways e-Advisor](#)
Supervised a team of four Duke undergrads in a 10-week summer research experience. Our team built an RShiny app that used a hybrid recommendation algorithm to recommend co-curricular activities to Duke undergrads.
- NOV 2015 - PRESENT **Webmaster**
[International Society for Business and Industrial Statistics \(ISBIS\)](#)
Updated and managed the society website and blog. Gained experience using HTML.
- SUMMER 2014, 2015 **Intern**
[Berry Consultants](#)

PAPERS

3. BERRY, L., HELMAN, P., WEST, M. "Probabilistic forecasting of heterogeneous consumer transaction-sales time series." 2018. [arXiv:1808.04698](#)
2. BERRY, L., WEST, M. "Bayesian forecasting of many count-valued time series." 2018. [arXiv:1805.05232](#)
1. BERRY, L., BEVERIDGE, A., BUTTERFIELD, J., ISLER, V., KELLER, Z., SHINE, A., WANG, J. "Line-of-sight pursuit in strictly sweepable polygons." 2015. [arXiv:1508.07603](#)

PRESENTATIONS

Invited Talks

- [ISBIS 2018](#) (Athens, Greece) July 5, 2018
Bayesian forecasting of many count-valued time series.
- [2018 ISBA World Meeting](#) (Edinburgh, UK) June 26, 2018
Bayesian forecasting of many count-valued time series.
- 84.51° Deep Dive Session (Cincinnati, OH) August 8, 2017
Bayesian forecasting of many count-valued time series.
- [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

Duke University, Durham, NC

- SPRING 2018 **Teaching Assistant**
Course: Advanced Statistical Modeling, STA 531
- SPRING 2016 **Teaching Assistant**
Course: Data Analysis and Statistical Inference, STA 101
Led lab sections for 20-30 undergraduate students.