

Lindsay BERRY

CONTACT

Ph.D. Candidate at [Duke University](#)
[Department of Statistical Science](#)
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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
Advisor: 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
Advisor: Peter MUELLER |

RESEARCH EXPERIENCE

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| SEPT 2016-
PRESENT | Research Assistant at 84.51°
<i>Advisors: Mike West, Paul Helman, Andrew Cron</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>Advisor: 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>Advisors: 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

Upcoming Talks

- [JSM 2019](#) (Denver, CO) July 2019
Bayesian Forecasting of High-Dimensional Count-Valued Time Series: Massive Data in Consumer Sales Forecasting. Invited session.

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)
Line-of-sight pursuit in monotone polygons.

January 17, 2014

TEACHING

Duke University, Durham, NC

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| FALL 2018 | Teaching Assistant
Course: Time Series & Dynamic Models, STA 642 |
| 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. |

AWARDS

- ISBIS 2018 Travel Award
- ISBA 2018 World Meeting Travel Award