

# Lindsay R. BERRY

## CONTACT

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## EDUCATION

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|-------------------------|---|
| 2015-2019,<br>FALL 2017 | <p>Ph.D. in STATISTICAL SCIENCE<br/>Master of Science in STATISTICAL SCIENCE<br/><b>Duke University</b>, Durham, NC<br/>Dissertation: "Bayesian Dynamic Modeling and Forecasting of Count Time Series"<br/>Advisor: Mike WEST</p>                         |
| 2011-2015               | <p>Bachelor of Science in Mathematics<br/><b>University of Texas</b>, Austin, TX<br/>Graduated with Honors in the Dean's Scholars Honors Program<br/>Thesis: "Simulation Controlled Seamless Phase II/III Clinical Trials"<br/>Advisor: Peter MUELLER</p> |

## RESEARCH EXPERIENCE

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

## OTHER EXPERIENCE

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- 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 \(ISBIS\)](#)  
Maintain and update the society website and blog. Experience using HTML.
- SUMMER 2014, 2015    **Intern**  
[Berry Consultants](#)

## PAPERS

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3. BERRY, L.R., HELMAN, P., WEST, M. "Probabilistic forecasting of heterogeneous consumer transaction-sales time series." 2018. [arXiv:1808.04698](#)
2. BERRY, L.R., WEST, M. "Bayesian forecasting of many count-valued time series." 2019. *Journal of Business and Economic Statistics*, to appear. [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

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### 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

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### Duke University, Durham, NC

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|-------------|---|
| FALL 2018   | <b>Teaching Assistant</b><br>Course: Time Series & Dynamic Models, STA 642  |
| SPRING 2018 | <b>Teaching Assistant</b><br>Course: Advanced Statistical Modeling, STA 531   |
| SPRING 2016 | <b>Teaching Assistant</b><br>Course: Data Analysis and Statistical Inference, STA 101<br>Led lab sections for 20-30 undergraduate students. |

## AWARDS

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