

# Lindsay BERRY

## CONTACT

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Ph.D. Candidate at [Duke University](#)  
[Department of Statistical Science](#)  
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## EDUCATION

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2015-PRESENT, FALL 2017	Ph.D. Candidate in STATISTICAL SCIENCE (expected 2019) Master of Science in STATISTICAL SCIENCE <b>Duke University</b> , 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 <b>University of Texas</b> , 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 <a href="#">84.51°</a> <i>Advisors: 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>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

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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.
- NOV 2015 - PRESENT    **Webmaster**  
[International Society for Business and Industrial Statistics \(ISBIS\)](#)
- SUMMER 2014, 2015    **Intern**  
[Berry Consultants](#)

## PAPERS

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3. BERRY, L., HELMAN, P., WEST, M. "Probabilistic forecasting of heterogeneous consumer transaction-sales time series." 2018. Technical report, forthcoming.
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

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### 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) August 9, 2013  
*Line-of-sight pursuit in monotone polygons.*

## TEACHING

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### 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.