

# 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,<br>FALL 2017 | Ph.D. Candidate in STATISTICAL SCIENCE (expected 2019)<br>Master of Science in STATISTICAL SCIENCE<br><b>Duke University</b> , Durham, NC<br>Advisor: Mike WEST<br>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<br><b>University of Texas</b> , Austin, TX<br>Graduated with Honors in the Dean's Scholars Honors Program<br>Advisor: Peter MUELLER  |

## RESEARCH EXPERIENCE

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| SEPT 2016-<br>PRESENT | Research Assistant at <a href="#">84.51°</a><br><i>Advisors: Mike West, Paul Helman</i><br>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-<br>MAY 2015 | 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. |
| SUMMER 2013           | 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.   |

## 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 \(ISBIS\)](#)  
Updated and managed the society website and blog. Gained experience using HTML.
- 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.