

Lindsay R. BERRY

CONTACT

Statistical Scientist at [Berry Consultants](#)
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EDUCATION

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

RESEARCH EXPERIENCE

SEPT 2016- MAY 2019	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 sales 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. Our team built an RShiny app that used a hybrid recommendation algorithm to recommend co-curricular activities to Duke undergrads. |
| NOV 2015 - JUNE 2019 | 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

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

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| • JSM 2019 (Denver, CO) | July 2019 |
| <i>Bayesian Forecasting of High-Dimensional Count-Valued Time Series: Massive Data in Consumer Sales Forecasting.</i> Invited session. | |
| • ISBIS 2018 (Athens, Greece) | July 5, 2018 |
| <i>Bayesian forecasting of many count-valued time series.</i> | |
| • 2018 ISBA World Meeting (Edinburgh, UK) | June 26, 2018 |
| <i>Bayesian forecasting of many count-valued time series.</i> | |
| • 84.51° Deep Dive Session (Cincinnati, OH) | August 8, 2017 |
| <i>Bayesian forecasting of many count-valued time series.</i> | |
| • ISBIS 2017 (Yorktown Heights, NY) | June 8, 2017 |
| <i>Simulation control of seamless phase II/III clinical trials.</i> | |

Contributed Talks

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| • Young Mathematicians Conference (Columbus, OH) | August 9, 2013 |
| <i>Line-of-sight pursuit in monotone polygons.</i> | |

Poster Presentations

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| • Joint Mathematics Meetings (Baltimore, MD) | January 17, 2014 |
| <i>Line-of-sight pursuit in monotone polygons.</i> | |

TEACHING

Duke University, Durham, NC

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

- JSM 2019 EFaB Paper Travel Award
- ISBIS 2018 Travel Award
- ISBA 2018 World Meeting Travel Award