

# Lindsey R. Bell

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Mathematics and Statistics  
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## Education

2011	Ph.D. Biostatistics, Florida State University
2007	M.S. Mathematics, Arkansas State University
2005	B.S. Mathematics, Harding University

## Professional Experience

2021- Present	Professor and Associate Department Chair, Coastal Carolina University
2017- 2021	Associate Professor and Associate Department Chair, Coastal Carolina University
2011- 2017	Assistant Professor, Coastal Carolina University
2009-2011	Adjunct Instructor, Tallahassee Community College
2007-2011	Graduate Teaching Assistant, Florida State University
2006-2007	Graduate Teaching Assistant, Arkansas State University

## Publications

Budner D, Bell L, and Thompson-Witrick K. (2023, January) The BooZi device's effect on aroma compounds in distilled spirits. *Journal of the South Carolina Academy of Science*. 21:1, Article 5.

Bell, L and Hill, P. (2022, November) An investigation of metropolitan crime distribution. *The College Mathematics Journal*, 53:5, 364-371. <https://doi.org/10.1080/07468342.2022.2125263>

Jeon, YS, A. Muoz-Garcs, L. Bell and W. Jones. (2021, December). Grammar sequence for teaching Spanish as a foreign language: new ideas. *Revista Iberoamericana de Lingstica N 16*, Madrid, Spain.

Budner, Carr, Serafini, Tucker, Meyer, Bell, Witrick. (2021, August) Statistical Significant Differences between Aroma Profiles of Beer Brewed from Sorghum. *Beverages*, 7,56. <https://doi.org/10.3390/beverages7030056>.

Molina, J, Crane, D., and Bell, L. (2020, June) Accuracy of Concert Versus Independent Age Estimates made from Anal Fin Rays of Muskellunge. *North American Journal of Fisheries Management*. doi:10.1002/NAFM.10483.

Novak, M., Crane, D., Bell, L., Keiner, L., Gatto, C., et. al. (2020, February) Spatial Ecology of Eastern Copperheads in Fragmented and Unfragmented Habitats. *Journal of Herpetology*, 54(1), 97-106. <https://doi.org/10.1670/18-146>.

Bell, L. Statistics: Then and Now. (2020) *Progression Magazine*. Gupta College of Science. Coastal Carolina University.

Wagner, R and Bell, L. (2019, November) Modeling Emergency Room Arrivals using the Poisson Process. *The College Mathematics Journal*, 50(5), 343-350. <https://doi.org/10.1080/07468342.2019.1662710>

Jeon YS, Bell L. (2019, October) Linguistic Attitude Comparison for Spanish beginning Hybrid and Online Courses. *Revista Iberoamericana de Lingstica*, 14, 5-23.

Nicholas Pritchard, Keshav Jagannathan, and Lindsey Bell. (2018). *Understanding Statistics: Activities and Exercises for First Statistics Course*. (2<sup>nd</sup> Edition). Kendall Hunt. ISBN 978-1-5249-6837-3.

Bell, L and Jagannathan, K. (2015, March) Introducing R in an Applied Statistics Course for Non-majors. Proceedings of the 26th International Conference on Technology in Collegiate Mathematics.

Jagannathan, K and Bell, L. Regression Outliers and Influential Observations using Fathom. (2015, March) Proceedings of the 26th International Conference on Technology in Collegiate Mathematics.

Nicholas Pritchard, Keshav Jagannathan, and Lindsey Bell. (2014). *Understanding Statistics: Class Activities for an Introductory Statistics Course*. (2<sup>nd</sup> Printing). Kendall Hunt.

Nicholas Pritchard, Keshav Jagannathan, and Lindsey Bell. (2012) *Understanding Statistics: Class Activities for an Introductory Statistics Course*. Kendall Hunt. ISBN: 978-1-4652-0817-0.

Tingting Zhao, Lindsey Bell, Mark W. Horner, John Sulik, Jinfeng Zhang. (2012) Financial Incentives and Home Energy Efficiency: A Survey-Based Study. *Energy Policy*, 47, 291-297.

Bell L, Chowdhary R, Liu JS, Niu X, Zhang J. (2011) Integrated Bio-Entity Network: A System for Biological Knowledge Discovery. *PLoS ONE* 6(6), e21474. doi:10.1371/journal.pone.0021474

## Manuscripts in Progress

Fredanna McGough, Ph.D., Lindsey Bell, Ph.D., Paul Richardson, Ph.D., Elody Bensch, Student, Madison Gentilo, Student, Olivia Shirley, Student and Michelle Barthet, Ph.D. Using the Health Belief Model to Predict COVID-19 Prevention Behaviors: A Model Approach. Submitted to *American Journal of Public Health* on 10/20/21.

Bell, Hill, Jaganathan, and Pritchard. The effects of COVID-19 on Performance in a Coordinated Multisection Introductory Statistics Course. Submission to *Journal of Statistics Education* spring 2022.

## Accepted Grants

Gilman, S. (partner contact) (2015). Constructing Strong STEM Foundations. SC Dept. of Education Math Science Partnership Grant, partnering with Georgetown County School District, September 2015-August 2018. Role: Running a one week workshop on statistics for middle school teachers.

Coastal Carolina University: Professional Enhancement Grant (2016). Applied Statistics with R: A Beginner's Guide. Funded at \$1,400. Role: Principal Investigator. Funding timeline: 11/2016 - 8/2017.

Coastal Carolina University: College of Science Mini-Grant for Travel. Spring 2015. Funded at \$1,000.

Coastal Carolina University: Professional Enhancement Grant (2011). Traffic Collision Analysis for the State of South Carolina and Myrtle Beach. Funded at \$1,400. Role: Principal Investigator. Funding timeline: 10/2011 - 8/2012.

## Student Direction

2022	Kaitlin Beasley-Polko; Master's thesis committee member
2022	Devyn Willey; Math 490 Capstone faculty mentor
2022	Michael Hendrix; Math 490 Capstone faculty mentor
2022	Alexa Martinez; STAT 315 Honors Project
2021	Riley Martin; Math 490 Capstone faculty mentor
2021	David Custer; Undergraduate Research Competition Mentor
2020	Drew Mort; Math 490 Mentor
2020	Alessandro Molinas; Math 490 Mentor
2020	Lillian Rios-Brady; Member of Master's thesis committee
2019	Joseph Molina; Marine Science Major; Independent study in Bayesian statistics; paper
2019	Sabrina Blanchard; Scholars Academy Student; expert advisor for AP research
2019	Ela Ender; Scholars Academy Student; expert advisor for AP research
2019	Daniel Hine; Math 490 mentor
2018	Christopher Fetting; Math 490 mentor
2016-2018	John Horgan; Math 490 mentor and supervisor for PEG grant work
2017	Rebecca Roberts; Math 490 mentor
2016-2017	Rachel Wagner; Math 490 advisor and publication
2016-2017	Megan Novak; Member of master's thesis committee
2013-2014	Megan Novak; Honors STAT 316, shark analysis, and <i>Bridges</i> submission
2013	Breelynn Hammerle; Math 490 mentor
2012-2013	Robert Pickus; PEG, WITS presentation, and MAA presentation
2012	Nick Posner; Math 490
2011-2012	Peter Greene; Math 490 and MAA poster presentation

## Contributed Talks

- 2021 | McGough, F. Bell, L. Richardson P., et al. Using the health belief model (HBM) to predict COVID-19 risk-reduction behaviors at a college located in a tourist destination. American Public Health Association Conference. October 25, 2021.
- 2021 | Bell, L. Monte Carlo Techniques for Modeling COVID-19 Spread. CHEM 150 guest for Gupta College of Science. April 14, 2021.
- 2018 | Bell, L. Wild Statistics: Driving around the Grand Strand. Osher Lifelong Institute presentation for College of Science lecture series. Georgetown, SC. February 13.
- 2017 | Budner, D. and Bell, L. Statistically significant difference between the aroma profiles of beer brewed from sorghum and barley malt. Poster presentation at the American Society of Brewing Chemist 2017 Annual Meeting. Fort Myers, FL. June 4-7, 2017.
- 2017 | Wagner, R. Nonhomogeneous Poisson Process for ER Arrivals. Undergraduate oral presentation at the MAA Southeastern Section 96th Annual Meeting. Mercer University. Macon, GA. March 10.
- 2017 | Wagner, R. Nonhomogeneous Poisson Process for ER Arrivals. Undergraduate poster presentation at the Joint Mathematics Meetings. Atlanta, GA. January 6, 2017.
- 2016 | Bell, L. Information Extraction in Biological Abstracts. Invited talk at Winthrop University Summer REU. Rock Hill, SC. June 24, 2016.
- 2015 | Bell, L. Introducing R in an Applied Statistics Course for Nonmajors. International Conference on Technology in Collegiate Mathematics. Las Vegas, NV. March 12-15, 2015.
- 2013 | Bell L, Pritchard N, Marcis J, Pickus R.(student) An Analysis of Vehicular Collisions in the Myrtle Beach Area. MAA Southeastern Section 92nd Annual Meeting. Winthrop University. Rock Hill, SC. March 15-16, 2013.
- 2012 | Bell L, Pritchard N, Marcis J, Pickus R. Wall Interdisciplinary Talks (WITS). An Analysis of Vehicular Collisions in the Myrtle Beach Area. October 19, 2012.
- 2012 | Bell L, Chowdhary R, Liu JS, Niu X, Zhang J. IBN: A System for Biological Network-based Knowledge Discovery. In Annual International Conference of the IEEE: Engineering in Medicine and Biology Society (EMBC), 2012.
- 2012 | Greene P (student), Bell L. Comparison of Three Regression Methods. MAA Southeastern Section 91st Annual Meeting. Clayton State University. Morrow, Georgia. March 9-10, 2012.
- 2012 | Bell L. Statistics and Literature Mining. Math 190, Freshman Seminar. February 2, 2012.
- 2011 | Bell L, Zhang J, Niu X. Mixture of logistic models and an ensemble approach for extracting protein-protein interactions. ACM-BCB, 371-375.

## Honors and Awards

- 2011 | Student Presentation Award; Florida Chapter of the ASA
- 2008 | Best First Year Student in Theoretical Statistics; Florida State University
- 2008 | Best First Year Student in Applied Statistics; Florida State University
- 2007 | Graduate Student Award for Department of Mathematics; Arkansas State University
- 2005 | Outstanding Student Award for Mathematics; Harding University

## Courses Taught

### Coastal Carolina University

Introduction to Statistics with Lab (STAT 201/201L)  
Study abroad in Tanzania (STAT 201/201L)  
Regression Analysis (STAT 315)  
Nonparametric Statistics (STAT 317)  
Experimental Design I (STAT 316)  
Experimental Design II (STAT 320)  
Categorical Data Analysis (STAT 319)  
Applied Statistical Methods (STAT 318)  
Independent Study in Bayesian Statistics (STAT 399)  
Statistical Inference I (STAT 412)  
Statistical Inference II (STAT 413)  
Statistical Computing (STAT 420)  
Applied Statistical Methods for Research I (STAT 604)

### Florida State University

Business Statistics (STAT 2023)  
Introduction to Applied Statistics (STAT 2122)  
Statistics for Biology (STAT 2171)

### Tallahassee Community College

College Algebra (MAC 1105)  
Math for Liberal Arts (MGF 1106)  
Intermediate Algebra (MAT 1033)  
Introduction to Statistics (STA 2023)

### Arkansas State University

Developmental Algebra (MATH 0003)

## University Service

2022-Present	GCOS Visioning and Strategic Planning Committee
2021-2022	Search Committee Chair (1 tenure track position)
2021	Search Committee (1 administrative assistant position)
2021-Present	MAA hosting committee resulting in CCU hosting 2023 MAA
2020-Present	Member of Transition Advisory Group for COVID-19 Response
2019	Faculty judge for the Undergraduate Research Competition
2018-2019	Search Committee (1 tenure track position)
2017-Present	Associate Chair Department of Mathematics and Statistics
2017-2018	Search Committee (1 tenure track position)
2017	Faculty judge for the Undergraduate Research Competition
2016-2017	Department Retention and Recruitment Committee
2016-Present	Chair of Department Curriculum Committee
2015	Faculty judge for the Undergraduate Research Competition (Celebration of Inquiry)
2014-2015	Chair of Mathematics Search Committee (1 tenure tack and 4 lecturers)
2012-2016	College of Science Curriculum Committee
2012-Present	Department of Mathematics and Statistics Curriculum Committee
2013-2018	STAT 201 Coordinator of Graders
2013	Faculty Judge for Undergraduate Research Competition
2011-present	Run special sections for Honors students
2011-2012	Mathematics Search Committee for an Assistant Professor

## Community Service

2019-2020	Mentor students in their AP Capstone course at Scholars Academy
2017	Provide statistics education training to Georgetown county middle school teachers
2017	Participate in our local Math Teacher Circle workshops, Horry and Georgetown
2013-Present	Organizer of mock AP Statistics exam for high school student, Horry County.
2012-2013	Volunteer cook at Community Kitchen, Myrtle Beach.
2011-2013	Teach and perform with Coastal Dance Center, Murrells Inlet.
2005	Mission work with children, Kisumu, Kenya.
2001	Health clinic for children, Port-au-Prince, Haiti.