

KESHAV JAGANNATHAN, Ph. D.
CURRICULUM VITAE

WORK 843-349-6466 · FAX 843-349-2344
EMAIL kjaganna@coastal.edu

Education

Aug 1999 - Aug 2005 Department of Mathematics and Statistics, Bowling Green State University
Ph.D in Mathematics : Specialization in Statistics
Advisors: Dr. Arjun Gupta and Dr. Truc Nguyen
Dissertation Title: “Statistical Inference and Goodness of Fit Tests for the Skewed Double Exponential Distribution”

Aug 1997- Aug 1999 Department of Mathematics and Statistics, Bowling Green State University
M.A. in Statistics

Aug 1994 - May 1997 Loyola College, University of Madras
B.Sc. in Mathematics

Employment

August 2021 - present Chair,
Department of Mathematics and Statistics, Coastal Carolina University

Aug 2017 - July 2021 Professor of Statistics,
Department of Mathematics and Statistics, Coastal Carolina University

Aug 2011 - May 2017 Associate Professor of Statistics,
Department of Mathematics and Statistics, Coastal Carolina University

Aug 2005 - May 2011 Assistant Professor of Statistics,
Department of Mathematics and Statistics, Coastal Carolina University

Jan 2001 - May 2005 Graduate Teaching Assistant,
Department of Mathematics and Statistics, Bowling Green State University

Jan 2000 - Dec 2000 Graduate Teaching Assistant,
Chapman Learning Community, Bowling Green State University

Aug 1997- Dec 1999 Graduate Teaching Assistant,
Department of Mathematics and Statistics, Bowling Green State University

Publications

- Lindsey Bell, Keshav Jagannathan, Nicholas Pritchard. *R manual for applied statistics (title not settled on yet)*. In preparation.
- Saalem Adera, Gaboury Benoit, Eamon Twohig, Keshav Jagannathan, Aleksandra Drizo. *Improving Performance of Treatment Wetlands: Evaluation of Supplemental Aeration, Varying Flow Direction, and Phosphorus Removing Filters*. *Water, Air and Soil Pollution*, **229:100** (2018).
- Scott Pleasant, Luke Niler, Keshav Jagannathan. ‘*By Turns Pleased and Confounded*’: *A Report on One Center’s RAD Assessments*. *Writing Center Journal*, **35**, No. 3 (2016).
- Keshav Jagannathan. *FORE! The Math Between the Club, the Little White Ball and the Score*, *Progression Magazine* (Coastal Carolina University; non peer-reviewed), Winter Issue, (2015).
- Lindsey Bell, Keshav Jagannathan. *Regression Outliers and Influential Observations Using Fathom*. *Proceedings of the International Conference on Technology in Collegiate Mathematics*, (2015).
- Lindsey Bell, Keshav Jagannathan. *Introducing R in an Applied Statistics Course for Nonmajors*. *Proceedings of the International Conference on Technology in Collegiate Mathematics*, (2015).
- Lindsey Bell, Keshav Jagannathan, Nicholas Pritchard. *Understanding Statistics: Class Activities For An Introductory Statistics Course*. Kendall Hunt (2012).

- Craig Andrews, Jim Attack, Benjamin M. Binder (student), Lauren E. Bohrer (student), Erin J. Burge, Zachary D. Hart (student), Keshav Jagannathan, Amanda C. Wood (student). *Fish Communities of North Carolina hard-bottoms*. Bulletin of Marine Science, **88** (2011).
- Arjun K. Gupta, Keshav Jagannathan, Truc T. Nguyen. *Characterization results for the Skewed Double Exponential Distributions*. Modern Mathematical Tools and Techniques in Capturing Complexity, Springer complexity series (2011), 131-139.
- Arjun K. Gupta, Keshav Jagannathan, Truc T. Nguyen. *Parameter Estimation of a Skewed Double Exponential Distribution*. J. of Probability and Statistical Science, **9**, No. 2 (2011), 153-164.
- Arjun K. Gupta, Keshav Jagannathan, Truc T. Nguyen. *Skewed Double Exponential Distribution and Its Stochastic Representation*. European J. of Pure and Applied Math., **2**, No. 1 (2009), 1-20.
- Arjun K. Gupta, Keshav Jagannathan, Truc T. Nguyen, Damodar Shanbhag. *Characterizations of stable laws via functional equations*. Mathematische Nachrichten, **279**, No. 5-6 (2006), 571-580.

Presentations

- *Undergraduate Research as a Capstone Course*, Panel Session, Joint Mathematical Meetings, Seattle Washington, January 2016.
- *Is the USGA Handicap System Equitable?*, College of Science “One talk, one time” series, Coastal Carolina University, Conway, South Carolina, November 2015.
- *Regression Outliers and Influential Observations Using Fathom*, International Conference on Technology in Collegiate Mathematics (ICTCM), Las Vegas, Nevada, March 2015.
- *Is the USGA Handicap System Equitable?*, College of Science “One talk, one time” series, Coastal Carolina University, Conway, South Carolina, October 2014.
- *The Advantage of the Coin Toss for the New Overtime System in the National Football League*, with Dr. N. Pritchard, Subash Saxena High School Math Contest, Coastal Carolina University, Conway, South Carolina, March 2014.
- *Is the USGA Handicap System Equitable?*, College of Science “One talk, one time” series, Coastal Carolina University, Conway, South Carolina, October 2013.
- *Are Our Students Prepared for College Mathematics - An Effort to Raise the Preparedness Level of Freshmen at Coastal Carolina University*, MAA Southeast Section Meeting, Morrow, Georgia, March 2012.
- *Exploring the (not so different) worlds of directed graphs and Markov Chains*, Invited Colloquium Presentation, Berry College, Rome, Georgia, October 2011.
- *Design of Experiments: A Primer*, Honors course lecture for Dr. Michael Roberts, Coastal Carolina University, Conway, South Carolina, March 2011.
- *Classifying Vertices of a Digraph Based on Markov Chain Theory*, MAA Southeast meetings, Elon, North Carolina, March 2010.
- *Is the USGA Golf Handicap System Fair?*, CCU, MATH 190 (Freshman Seminar), Conway, South Carolina, March 2010.
- *The Poisson Distribution and Poisson Processes*, Computer Security Conference, Invited address, Myrtle Beach, South Carolina, April 2009.

- *An Introduction to Two Alternative Styles of Teaching Introductory Statistics*, MAA Southeast Meeting, Charleston, South Carolina, March 2008.
- *Collecting and Analyzing Data in the Practice of SoTL*, Myrtle Beach Education Conference, Myrtle Beach, South Carolina, April 2008.
- *Is Mathematical Intuition Foolproof?*, Pi Mu Epsilon Honor Society Induction Ceremony Keynote Address, Coastal Carolina University, April 2007.
- *How Does Technology Affect Statistics in the Classroom?*, MAA-SIAM Southeast Joint Meetings, Statesboro, Georgia, March 2007.
- *Statistical Analysis of Incident Data*, Computer Security Conference, Invited address, Myrtle Beach, South Carolina, April 2007.
- *How the Advent of Technology Affects the Understanding and Use of Statistics*, CCU, Celebration of Inquiry, February 2007.
- *Logistic Regression in R*, CCU, Math Department Seminar, April 2007.
- *Mathematical Insanity*, CCU, Pi Mu Epsilon Honor Society Induction Ceremony Keynote Address, March 2006.
- *Handling Graphics in L^AT_EX*, MAA Southeast Meeting, Auburn, Alabama, March 2006.
- *Estimation of the Parameter of the Skewed Double Exponential Distribution*, MAA Southeast Meeting, Auburn, Alabama, March 2006.
- *Why do I Need Statistics?*, CCU, Celebration of Inquiry with Dr. P. Sansgiry, February 2006.
- *Parameter Estimation of a Skewed Double Exponential Distribution*, Joint Statistical Meetings of the American Statistical Association, Seattle, Washington, August 2006.
- *Identifying Outliers in Multivariate Data: An Undergraduate's Perspective*, Joint Statistical Meetings of the American Statistical Association, Seattle, Washington, with Anthony Franklin (undergraduate student), August 2006.
- *Skewed Double Exponential Distributions: An Introduction*, MAA Ohio Section Meeting, Cincinnati, Ohio, March 2004.
- *How to draw with L^AT_EX: Simple Graphing Commands*, MAA Ohio Section Meeting, Cincinnati, Ohio, March 2004.

Teaching Experience

At Coastal Carolina University

Summer 2022 STAT 201L Elementary Statistics Laboratory, STAT 601 Conceptual Statistics.

Spring 2022 MATH 138 Mathematics with Applications in Business (3/4 semester), STAT 320 Experimental Design II, STAT 413 Statistical Inference II.

Fall 2021 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Summer 2021 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Spring 2021 STAT 201 Elementary Statistics, STAT 201L (Online) Elementary Statistics Laboratory, STAT 320 Experimental Design II.

Fall 2020 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 316 Experimental Design I.

Summer 2020 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 601 Conceptual Statistics.

Spring 2020 STAT 201 Elementary Statistics, STAT 201L (Online) Elementary Statistics Laboratory, STAT 320 Experimental Design II.

Fall 2019 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 316 Experimental Design I, MATH 190 Freshman Seminar in Mathematics.

Summer 2019 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory,

Spring 2019 STAT 201 (Online) Elementary Statistics, STAT 201L (Online) Elementary Statistics Laboratory, STAT 320 Experimental Design II, STAT 319 Categorical Data Analysis.

Fall 2018 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 201 (Online) Elementary Statistics, STAT 201L (Online) Elementary Statistics Laboratory, STAT 316 Experimental Design I.

Summer 2018 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 601 Conceptual Statistics.

Spring 2018 STAT 201 (Online) Elementary Statistics, STAT 201L (Online) Elementary Statistics Laboratory, STAT 320 Experimental Design II.

Fall 2017 MATH 490 Seminar in Mathematics, STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 316 Experimental Design I,

Summer 2017 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Spring 2017 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 320 Experimental Design II, STAT 413 Statistical Inference II.

Fall 2016 MATH 132 Business Calculus, MATH 490 Seminar in Mathematics, STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 316 Experimental Design I.

Summer 2016 STAT 201 Elementary Statistics, STAT 601 Conceptual Statistics.

Spring 2016 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Fall 2015 MATH 490 Seminar in Mathematics, STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 412 Statistical Inference I.

Summer 2015 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Spring 2015 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Fall 2014 MATH 130I College Algebra Intensive, MATH 490 Seminar in Mathematics, STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 315 Regression Analysis.

Summer 2014 MATH 132 Business Calculus, STAT 601 Conceptual Statistics.

Spring 2014 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 317 Nonparametric Statistical Methods.

Fall 2013 MATH 490 Seminar in Mathematics, STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 315 Regression Analysis.

Summer 2013 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Spring 2013 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 318 Applied Statistical Methods.

Fall 2012 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 316 Experimental Design I.

Summer 2012 STAT 201L Elementary Statistics Laboratory, STAT 601 Conceptual Statistics.

Spring 2012 MATH 160 Calculus I.

Fall 2011 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 316 Experimental Design I, STAT 412 Statistical Inference I.

Summer 2011 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Spring 2011 STAT 318 Applied Statistical Methods, STAT 319 Categorical Data Analysis.

Fall 2010 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Summer 2010 STAT 201L Elementary Statistics Laboratory, STAT 601 Conceptual Statistics.

Spring 2010 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 317 Nonparametric Statistical Methods.

Fall 2009 MATH 490 Seminar in Mathematics, STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 318 Applied Statistical Methods.

Summer 2009 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Spring 2009 MATH 307 Combinatorics, STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Fall 2008 STAT 318 Applied Statistical Methods, STAT 413 Statistical Inference II.

Summer 2008 STAT 201L Elementary Statistics Laboratory, STAT 601 Conceptual Statistics.

Spring 2008 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 315 Regression Analysis, STAT 412 Statistical Inference I.

Fall 2007 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Summer 2007 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory.

Spring 2007 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 315 Regression Analysis.

Fall 2006 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 316 Design of Experiments, STAT 413 Statistical Inference II.

Summer 2006 No classes taught.

Spring 2006 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 412 Statistical Inference I.

Fall 2005 STAT 201 Elementary Statistics, STAT 201L Elementary Statistics Laboratory, STAT 412 Statistical Inference I.

At Bowling Green State University

MATH 115 Introduction To Statistics

MATH 115A Activity Based Intro. To Statistics

MATH 115L Distance Learning Intro. To Statistics

MATH 120 College Algebra

MATH 121 College Algebra I

MATH 126 Business Calculus

MATH 128 Precalculus Mathematics

MATH 135 Calculus and Analytic Geometry 1B

Grants and Awards

- South Carolina Department of Education Coastal Math Science Partnership (MSP) between Horry County Schools and Coastal Carolina University, 2017. Role: Mathematics Consultant.
- South Carolina Department of Education Coastal Math Science Partnership (MSP) between Horry County Schools and Coastal Carolina University, 2016. Role: Mathematics Consultant.
- COOL Grant for creation of online Elementary Statistics course, 2016.
- CCU Professional Activities Mini-grant to attend International Conference on Technology in Collegiate Mathematics (ICTCM), Spring 2015.
- CCU Professional Activities Mini-grant to attend Mathematical Association of America meetings, Spring 2014.
- South Carolina Department of Education Coastal Math Science Partnership (MSP) between Horry County Schools and Coastal Carolina University. Funded at \$686,000 (CCUOs share is \$143,000), 2011-2013. Role: Statistics Consultant.
- CCU Professional Activities Mini-grant to attend Mathematical Association of America meetings, Spring 2012.
- CCU Professional Activities Mini-grant to attend Mathematical Association of America meetings, Spring 2010.
- CCU SOTL Grant *Guided Notes: An Effective Tool for Student Learning?*, Fall 2007.
- CCU SOTL Grant to investigate *The Teaching and Learning of Statistics: Traditional vs. Interactive Methods*, Fall 2006.
- CCU Professional Activities Mini-grant to attend Joint Statistical Meetings meetings, Spring 2006.
- CCU Enhancement Grant (with Dr. E. Helms, Dr. A. Hitt, Dr. J. Piroch) to investigate *The Impact of Moral Intuition on Pre-Service Teachers' Perspectives on Educational Issues and Practices*.
- Outstanding International Graduate Student Award, Spring 2004.
- Lukacs Scholarship, Summer 2003.
- Inducted into Mu Sigma Rho, Statistics Honor Society (Inducted 1999).

Service

University Service

- Chair, Budget and Finance Committee, Fall 2020 - Fall 2021.
- Member, UWACS-EP Committee, Fall 2017 - present.
- Faculty Manual Committee, Chair, Fall 2017 - Fall 2018.
- Strategic Planning Committee, Spring 2016 - Fall 2018.
- Faculty Call Campaign, Spring 2016.
- Faculty Manual Committee, Fall 2015 - May 2017.
- Faculty Senate, Fall 2013 - Fall 2018.
- Peer and Aspirant Committee, Fall 2012 - Spring 2013.
- Chair, Faculty Senate, Fall 2011 - Fall 2013.
- Mathematics Placement Test Coordinator, Fall 2011 - May 2016.
- Core Curriculum Committee, Fall 2010 - Summer 2011.

- License coordinator for Matlab (student licenses for College of Science), Fall 2009 - present.
- International Programs Committee, Fall 2008 - Spring 2011.
- Licence coordinator for Minitab, Fall 2005 - Fall 2018.
- Faculty Senate, Fall 2007 - Fall 2010.
- Faculty Advisor for Men's Club Volleyball Fall 2006 - Fall 2010.
- Faculty Advisor for Women's Club Volleyball Fall 2007 - Fall 2009.
- Outstanding Alumni Award Committee, College of Science representative, 2007.

College Service

- College of Science Assessment Coordinator, Fall 2017 - present.
- College of Science Technology Committee, Fall 2009 - Fall 2019.
- College of Science Promotion and Tenure Committee, Fall 2014 - Spring 2015.
- Coastal Marine and Wetland Studies Graduate Committee, Dean's Appointee, Fall 2007 - Fall 2011.
- College of Science Curriculum Committee, Fall 2010 - Spring 2012.
- School of Coastal and Marine Systems Science Thesis Committee for
 - Francesca Roselli
 - Caroline Collatos
 - Daniela Silva
 - Jessica Conway
 - Adam Fox
- College of Science Research Award Committee, Fall 2007 - Fall 2008.
- Served on Graduate Student Thesis Committee for
 - Mary K. Maxwell
 - Mollie McDonough
 - Mario Lawrence
 - Rebecca Xiques

Department Service

- Departmental Committees
 - Statistics Committee, Fall 2005 - present.
 - Curriculum Committee, Fall 2005 - Fall 2012.
 - Success and Retention Committee, Fall 2005 - Fall 2010.
- Assistant Professor Search Committee, Department of Mathematics and Statistics, CCU, Spring 2019.
- Assistant Professor Search Committee, Department of Mathematics and Statistics, CCU, Fall 2013 - Spring 2014 (over 100 applicants).
- Assistant Professor Search Committee, Department of Mathematics and Statistics, CCU, Fall 2010 - Spring 2011 (chair) (over 100 applicants).

- Assistant Professor Search Committee, Department of Mathematics and Statistics, CCU, Fall 2007 - Spring 2008 (chair) (over 100 applicants).
- Assistant Professor Search Committee, Department of Mathematics and Statistics, CCU Fall 2006 - Spring 2007 (over 200 applications).
- Visiting Assistant Professor Search Committee, Department of Mathematics and Statistics, Spring/Summer 2006.
- Mathematics Contest (Created Level II Test), Spring 2006.
- Mathematics Contest (Proctor), Spring 2006, Spring 2007, Spring 2008.

Community Service

- Judge for Undergraduate Research Contest, CCU, Spring 2021.
- Judge for Undergraduate Research Contest, CCU, Spring 2018.
- Judge for Undergraduate Research Contest, CCU, Spring 2017.
- Judge for Poster Session, Joint Mathematics Meeting, Seattle, WA, Spring 2016.
- Judge for Undergraduate Research Contest, Celebration of Inquiry, CCU, Spring 2016.
- Judge for Undergraduate Research Contest, Celebration of Inquiry, CCU, Spring 2014.
- Special Session Organizer, Mathematical Association of America, Southeastern Section Meeting, Spring 2014.
- Judge for Undergraduate Research Presentation, Mathematical Association of America, Southeastern Section Meeting, Spring 2014.
- Book Table Volunteer, Mathematical Association of America, Southeastern Section Meeting, Spring 2014.
- Math Jeopardy Mediator, Mathematical Association of America, Southeastern Section Meeting, Spring 2014.
- Math Jeopardy Mediator, Mathematical Association of America, Southeastern Section Meeting, Spring 2013.
- Book Table Volunteer, Mathematical Association of America, Southeastern Section Meeting, Spring 2013.
- Judge for Undergraduate Research Presentation, Mathematical Association of America, Southeastern Section Meeting, Spring 2013.
- Judge for Undergraduate Research Contest, Celebration of Inquiry, CCU, Spring 2010.
- Volunteer calculus tutor (for CCU Volleyball Players, over 100 contact hours), Fall 2009 - Fall 2010.
- Paid Statistical Consultant (for Dr. Megan McIlreavy), Fall 2009 - Summer 2010.
- Unpaid Statistical Consultant for
 - JoLynn Prochaska (local school teacher)
 - Amy Fyn (CCU faculty member)
 - Derek Crane (CCU faculty member)
 - Amy and Scott Bloch (ER Physicians)
 - Wendy McDonald (local school teacher)
 - Stephanie Koontz (former undergraduate student)

- Nicole Kuenzel (former undergraduate student)
- Megan Savard (graduate student, CMWS)
- Paul Hoffman (former graduate student, CMWS)
- Michelle Evans (former graduate student, CMWS)
- Katy Johnston (former graduate student, CMWS)
- Laura Shappel (former graduate student, CMWS)
- Kerri Dikun (former graduate student, CMWS)
- Nik Harbachow (former graduate student, CMWS)
- Carrie Jones (former graduate student, CMWS)
- Travis Scott (former graduate student, CMWS)
- Jeremy Mull (former graduate student, CMWS)

Computer Skills

- Proficient in Matlab, Minitab, R, \LaTeX , Mac OS, Windows