

Christy Jenkins Brown

Department of Education and Human Development
Clemson University
Tillman 210
Clemson, SC 29634

Office: (864) 656-5121
Email: cjb2@clermson.edu
Web: www.people.clemson.edu/~cjb2

EDUCATION

- Ph.D. in Educational Psychology** August 2013
The University of Georgia
Concentration: Quantitative Methods Program
Dissertation Advisor: Jonathan Templin
- M.S. in Statistics** May 2010
The University of Georgia
Awarded Best Beginning Applied Student
- B.S.Ed. in Mathematics Education** May 2004
The University of Georgia
First Honor Graduate (designation for students with a perfect 4.00 GPA)

PROFESSIONAL EXPERIENCE

- Clinical Assistant Professor of Quantitative Methodology** August 2019 – present
Department of Education and Human Development
Clemson University
- Senior Lecturer** August 2018 – July 2019
School of Mathematical and Statistical Sciences
Clemson University
- Lecturer** August 2013 – July 2018
Department of Mathematical Sciences
Clemson University
- Research Assistant** June 2010 – July 2013
Department of Educational Psychology/Georgia Center for Assessment
The University of Georgia
- Teaching Assistant** August 2008 – May 2010
Department of Statistics
The University of Georgia

PUBLICATIONS

Peer-Reviewed Articles

Brown, C., Brown, D., Gallagher, E., Frady, K., and Gromopadhye, A. (under revision). The effect of school poverty index on first college math course placement for students in engineering and engineering-related fields.

Brown, C., Templin, J., & Cohen, A. (2015). Comparing the two- and three-parameter logistic models via likelihood ratio tests: A commonly misunderstood problem. *Applied Psychological Measurement*, 39(5), 335-348.

PRESENTATIONS

International and National Conferences

Brems, M., **Brown, C.,** Lee, H., Pittard, M., Ripp, S., & Slade, E. (2019, July). *Student engagement and interaction in online/hybrid courses*. Panel session presented at the Joint Statistical Meetings in Denver, CO.

Brown, C., & Breazel, E. (2019, July). *Preparing students for success on the AP Statistics investigative task*. Training session presented at the Advanced Placement Annual Conference in Orlando, FL.

Breazel, E., & **Brown, C.** (2018, July). *Top five activities you need for your AP Statistics classroom*. Training session presented at the Advanced Placement Annual Conference in Dallas, TX.

Brown, C., Breazel, E., Johnson, E., Duggins, J., & Crissinger, B. (2017, August). *Developing partnerships with an AP Statistics practice exam*. Speed session and poster presented at the Joint Statistical Meetings in Baltimore, MD.

Breazel, E., & **Brown, C.** (2017, July). *The forgotten inference: Chi-squared tests and regression analysis*. Training session presented at the Advanced Placement Annual Conference in Washington, D.C.

Breazel, E., & **Brown, C.** (2016, July). *Conditions for inference: What are they and why do we need them?* Training session presented at the Advanced Placement Annual Conference in Anaheim, CA.

Breazel, E., & **Brown, C.** (2015, July). *What's wrong with accepting the null hypothesis?* Training session presented at the Advanced Placement Annual Conference in Austin, TX.

Breazel, E., & **Brown, C.** (2014, July). *Bias vs. error – what is the difference?: Helping students to distinguish between bias and error and how to communicate statistical understanding of experimental design clearly.* Training session presented at the Advanced Placement Annual Conference in Philadelphia, PA.

Brown, C., & Templin, J. (2014, April). *Modification indices for diagnostic classification models.* Dissertation presented at the annual meeting of the National Council on Measurement in Education in Philadelphia, PA.

Jenkins, C., Templin, J., & Cohen, A. (2012, April). *Comparing the two- and three-parameter logistic models via likelihood ratio tests: A commonly misunderstood problem.* Paper presented at the annual meeting of the National Council on Measurement in Education in Vancouver, British Columbia, Canada.

Nixon, C., Ferster, A., Alagoz, C., **Jenkins, C.,** & Templin, J. (2012, April). *A multilevel diagnostic model for GKIDS performance ratings.* Poster presented at the annual meeting of the National Council on Measurement in Education in Vancouver, British Columbia, Canada.

Alexeev, N., Cohen, A., Gregg, N., & **Jenkins, C.** (2011, April). *Factors affecting the formation of latent classes in mixture IRT models.* Paper presented at the annual meeting of the National Council on Measurement in Education in New Orleans, LA.

Regional and State Conferences

Gallagher, E., **Brown, C.,** & Frady, K. (2019, March). *Predictive models for initial college math course and major selection based on high school institutional factors.* Paper presented at the South Carolina Educators for the Practical Use of Research Conference in Columbia, SC.

Brown, C., & Breazel, E. (2015, November). *Engaging activities for teaching statistics.* Training session presented at the South Carolina Council of Teachers of Mathematics Fall Conference in Greenville, SC.

Published Conference Proceedings

Marcanikova, M., Gallagher, E., **Brown, C. J.,** Brisbane, J., Brown, D. A., Dunwoody, L. A., Frady, K., Hines, A., Murphy, J. C., Patel, K., Pfirman, A., Roberson, S. L., & Gramopadhye, A. (2019). High School Technology as a NON-predictor of First College Math Course. *Proceedings of the 2019 American Society of Engineering Education Southeast Annual Regional Conference, Raleigh, NC.*

Gallagher, E., Brown, D. A., **Brown, C. J.,** Frady, K., Bass, P., Matthews, M., Peters, T., Rabb, R., Sloan, I., Welch, R., & Gramopadhye, A. (2018). Identifying prevalent mathematical pathways to engineering in South Carolina. *Proceedings of the 2018 American Society of Engineering Education Annual Conference and Exposition, Salt Lake City, UT.*

Gallagher, E., **Brown, C. J.**, Brown, D. A., Frady, K., Marcanikova, M., Atamturktur, S., Ihekweazu, S., Matthews, M., Rabb, R., Roberts, R., Solan, I., Welch, R., & Gramopadhye, A. (2018). Statewide coalition: Supporting underrepresented populations in Precalculus through organizational redesign toward engineering diversity (SC:SUPPORTED) Year 1. *Proceedings of the 2018 American Society of Engineering Education Annual Conference and Exposition*, Salt Lake City, UT.

Local Presentations

Brown, C., Gallagher, E., Brown, A., Frady, K., Gramopadhye, A. K. (2018, May). *Analysis of pathways to Calculus readiness for SC engineering students: Preliminary results from the SC: SUPPORTED NSF INCLUDES project*. Paper presented at the Clemson University Research Symposium in Clemson, SC.

SPONSORED RESEARCH

“Statewide Coalition: Supporting Underrepresented Populations in Precalculus by Organizational Redesign Towards Engineering Diversity (SC:SUPPORTED),” National Science Foundation: Division of Engineering Education and Centers (EEC-1744497). PI: Anand Gramopadhye, \$299,994 (12/1/2017 – 11/30/2019). Role: Co-Principal Investigator (\$44,999), 2017 – present.

“AutoMentor: Virtual Mentoring and Assessment in Computer Games for STEM Learning,” National Science Foundation: Division of Research on Learning in Formal and Informal Settings (DRL-0918409). PI: David Williamson Shaffer, \$3,500,000 (9/1/2009 – 8/31/2015). Role: Graduate Student Research Assistant, 2012-2013.

“Collaborative Research: Longitudinal Diagnostic Models,” National Science Foundation: Measurement, Methodology, and Statistics Program (MMS; SES-1030337). PI: Jonathan Templin, \$76,611 (9/15/2010 – 8/31/2013). Role: Graduate Student Research Assistant, 2011-2012.

INTERNAL AWARDS

Faculty Learning Community Leader, Clemson Office of Teaching Effectiveness, 2018
Received \$1,500 to facilitate a learning community for Clemson faculty on innovative methods for teaching large enrollment general education courses. The learning community was selected from a campus-wide call for proposals.

General Education Assessment Program Participant, Clemson University, 2017 – 2018
Awarded \$2,500 per year for participation in assessment of student proficiencies in general education competencies at Clemson University.

TIGER Grant, Clemson College of Engineering, Computing, and Applied Science, 2017

The Clemson research team for the NSF funded SC:SUPPORTED research project was awarded \$14,631 to accelerate the data collection and analysis timeline in an effort to be competitive for a full NSF INCLUDES ALLIANCE proposal deadline.

Online Course Development Grant, Clemson College of Engineering and Science, 2015

Awarded \$7,500 for the development of an online version of the Statistical Methods I course at Clemson University with an initial offering in Summer 2016.

Workshop Awards, UGA Department of Educational Psychology

Received departmental funding on a competitive basis to attend the following workshops hosted by the UGA College of Education Research Office:

1. *Equating Workshop*, June 2012
Instructors: Robert Brennan and Won-Chan Lee, University of Iowa
Award Amount: \$1,400
2. *Validation: A General Framework and Prototypes*, July 2011
Instructor: Michael T. Kane, Educational Testing Service
Award Amount: \$400
3. *Diagnostic Classification Models: Theory, Methods, and Applications*, October 2010
Instructors: Jonathan Templin and Laine Bradshaw, The University of Georgia

Travel Award, The University of Georgia, 2012

Received funding from the following sources to attend the 2012 Annual Meeting of the National Council on Measurement in Education in Vancouver, British Columbia, Canada:
College of Education: \$300
Department of Educational Psychology: \$150
Georgia Center for Assessment: \$500

COURSES TAUGHT

Clemson University

EDF 9270: Quantitative Research Designs and Statistics for Educational Contexts (1 semester)
STAT 2300: Statistical Methods I (11 semesters)
STAT 2300 Online: Statistical Methods I Online (4 semesters)
STAT 3090: Introductory Business Statistics (2 semesters)
MATH 1040: Precalculus and Introductory Differential Calculus (1 semester)
MATH 1070: Differential and Integral Calculus (1 semester)
MATH 9000: Preparing for College Teaching in the Mathematical Sciences (4 semesters)

The University of Georgia

STAT 2000: Introductory Statistics (1 semester)
STAT 2000 Lab: Introductory Statistics Laboratory (3 semesters)
STAT 4210: Statistical Methods (1 semester)

Loganville High School, Loganville, GA
Advanced Placement (AP) Statistics (4 semesters)
Statistics (3 semesters)
SAT Math Prep (1 semester)
Euclidean Geometry (6 semesters)

TEACHING HONORS AND AWARDS

Excellence in Teaching 2018
College of Science, Clemson University

Outstanding Graduate Teaching Assistant Award 2010
Department of Statistics, The University of Georgia

SERVICE TO PROFESSION

AP Statistics Teacher Community Coordinator 2017 – present
Greenville, SC

AP Statistics Instructional Design Team Member 2018 – 2019
The College Board

AP Statistics Exam Reading Table Leader 2016 – 2019
Educational Testing Service

AP Statistics Exam Reader 2008 – 2015
Educational Testing Service

UNIVERSITY SERVICE

Academic Technology Council, Member 2019 – present
Clemson University

General Education Assessment Subcommittee, Member 2018 – 2019
Clemson University

Statistical Methods I Course Coordinator 2015 – 2019
School of Mathematical and Statistical Sciences, Clemson University

Clemson AP Statistics Practice Exam Coordinator 2014 – 2019
School of Mathematical and Statistical Sciences, Clemson University

Mathematics Curriculum Team Member
The University of Georgia

2011 – 2013

Faculty Search Committee, Graduate Student Member
Department of Educational Psychology, The University of Georgia

2013

PROFESSIONAL MEMBERSHIPS

American Statistical Association (ASA)
National Council of Teachers of Mathematics (NCTM)
National Council on Measurement in Education (NCME)