

# Matthew J. Madison

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University of Georgia  
College of Education  
325Q Aderhold Hall  
Athens, GA 30602

Office: (706) 542 – 4110  
Email: [mjmadison@uga.edu](mailto:mjmadison@uga.edu)  
Website: [www.matthewmadison.com](http://www.matthewmadison.com)

## Education

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<i>Degree</i>	<i>Program</i>	<i>Institution</i>	<i>Year</i>
Ph.D.	Quantitative Methodology	University of Georgia	2016
M.S.	Statistics	University of Georgia	2014
M.A.	Mathematics	Central Michigan University	2011
B.S.	Mathematics	University of South Carolina	2009

## Academic Positions

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**University of Georgia** 2020 – Present  
College of Education  
Department of Educational Psychology  
*Assistant Professor, Quantitative Methodology*

**Clemson University** 2018 – 2020  
College of Education  
Department of Education and Human Development  
*Assistant Professor, Learning Sciences*

**University of California – Los Angeles** 2016 – 2018  
Graduate School of Education and Information Studies  
Social Research Methodology Division  
*Assistant Professor, Advanced Quantitative Methods*

## Research Interests

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Psychometrics; diagnostic classification models; longitudinal measurement

## Publications

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\*Indicates collaboration with a graduate student.

Jurich, D., & **Madison, M. J.** (accepted) Measuring item influence for diagnostic classification models. *Educational Assessment*.

- Herro, D., **Madison, M.J.**, Arastoopour Irgens, G., & Hirsch, S. (accepted) Exploring elementary teachers' perceptions of data science and curriculum design through professional development. *Journal of Technology & Teacher Education*.
- Arastoopour Irgens, G., Hirsch, S., Herro, D., & **Madison, M.J.** (2022). Analyzing a teacher and researcher co-design partnership through the lens of communities of practice. *Teaching and Teacher Education*.
- Madison, M. J.** (2019). Reliably assessing growth with longitudinal diagnostic classification models. *Educational Measurement: Issues and Practice*, 38(2), 68-78.
- Madison, M. J.**, & Bradshaw, L. (2018). Assessing growth in a diagnostic classification model framework. *Psychometrika*, 83(4), 963-990.
- Madison, M. J.**, & Bradshaw, L. (2018). Evaluating intervention effects in a diagnostic classification model framework. *Journal of Educational Measurement*, 55(1), 32-51.
- Bradshaw, L., & **Madison, M. J.** (2016). Invariance properties for general diagnostic classification models. *International Journal of Testing*, 16(2), 99-118.
- Madison, M. J.**, & Bradshaw, L. (2015). The effects of Q-matrix design on classification accuracy in the LCDM. *Educational and Psychological Measurement*, 75(3), 491-511.
- Piatek-Jimenez, K., **Madison, M. J.**, & Przybyla-Kuchek, J. (2014). Equity in mathematics textbooks: A new look at an old issue. *Journal of Women and Minorities in Science and Engineering*, 20(1), 55-74.
- Piatek-Jimenez, K., & **Madison, M. J.** (2012). Equity in mathematics textbooks: A report on progress. *Proceedings of the 34th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Kalamazoo, MI: Western Michigan University.

### **Manuscripts Under Review**

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\*Indicates collaboration with a graduate student.

\*Maas, L., **Madison, M.J.**, Brinkhuis, M.J.S. Properties and performance of the one-parameter log-linear cognitive diagnosis model. Manuscript under review.

\***Madison, M. J.**, Wind, S. A., Maas, L., Yamaguchi, K., & Haab, S. A one-parameter diagnostic classification model with familiar properties. Manuscript under review.

\***Madison, M. J.**, Chung, S., Kim, J., Bradshaw, L. P. Approaches to estimating longitudinal diagnostic classification models. Manuscript under review.

## Current Grant Support

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**Principal Investigator:** *FY24 Anderson School District 5* (2023 – 2024). Anderson Five School District ~ \$148,196.

**Principal Investigator:** *Generalized, Multilevel, and Longitudinal Psychometric Models for Evaluating Educational Interventions* (2022 – 2025). Institute of Educational Sciences ~ \$899,550.

**Principal Investigator:** *Doubly Mixture Psychometric Models for Modeling Learning Progressions* (2021 – 2023). UGA Faculty Seed Grants in the Sciences ~ \$22,206.

**Co-Principal Investigator:** *CT-STEM Pop-Ups4All: An RPP for Agile Learning* (2020 – 2024). National Science Foundation ~ \$948,551.

**Co-Principal Investigator:** *Native STEM Portraits: A Longitudinal, Mixed-Methods Study of the Intersectional Experiences of Native Learners and Professionals in STEM* (2020 – 2024). National Science Foundation ~ \$1,545,963.

**Principal Investigator:** *A Family of Diagnostic Models for Evaluating Learning Progressions* (2019 – 2024). National Science Foundation ~ \$229,430.

## Grant Proposals Under Review

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### Previously Funded Grants

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**Principal Investigator:** *Assessing Nested Effects in a Diagnostic Classification Model Framework* (2017 – 2018). UCLA Faculty Research Grant ~ \$6,305.

### Unfunded Grant Proposals

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**Principal Investigator:** *Generalized, Multilevel, and Longitudinal Psychometric Models for Evaluating Educational Interventions* (2021 – 2024). Institute of Educational Sciences ~ \$887,024. Score = 2.05.

**Principal Investigator:** *Generalized, Multilevel, and Longitudinal Psychometric Models for Evaluating Educational Interventions* (2020 – 2023). Institute of Educational Sciences ~ \$854,997.

**Principal Investigator:** *CAREER: Multilevel Diagnostic Classification Models for Evaluating Intervention Effects* (2019 – 2024). National Science Foundation ~ \$559,363.

**Co-Principal Investigator:** *Know Your Nearest Neighbors* (2018 – 2023). National Science Foundation: Discovery Research PreK – 12 ~ \$2,999,569. PI: David Weintrop.

**Co-Principal Investigator:** *Talent for Teaching* (2018 – 2023). National Science Foundation: Robert Noyce Scholarship Program ~ \$1,447,285. PI: Christopher Anderson.

**Co-Principal Investigator:** *Principles of Data Science (PODS)* (2017 – 2020). National Science Foundation: STEM + Computing ~ \$2,500,000. PI: Rob Gould.

**Principal Investigator:** *Diagnosing Teachers' Statistical Preparation* (2017 – 2018). UCLA Transdisciplinary Seed Grant ~ \$32,337.

### **Honors and Awards**

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Presenter's Choice Award STEM for All Video Showcase Portraits of Giving Back by Native Individuals in STEM	2022
Paul L. Beasley TRiO Trailblazer McNair Alumni Award University of South Carolina TRIO Programs	2019
Outstanding Dissertation Award American Educational Research Association Cognition and Assessment Special Interest Group	2019
Owen W. Scott Award for Academic Merit and Professional Promise University of Georgia Department of Educational Psychology	2015
UGA Amazing Student University of Georgia College of Education	2014
2 <sup>nd</sup> Place: Quantitative Division Poster <i>Group-mean centering in hierarchical linear models: A weighting approach.</i> Poster presented at the 2013 College of Education Graduate Student Research Conference in Athens, GA.	2013
Outstanding Tutor Honorable Mention Central Michigan University Department of Mathematics	2012
Outstanding Teaching Assistant Central Michigan University Department of Mathematics	2011
Emerging Scholar Award University of South Carolina Ronald E. McNair Scholars Program	2008

## Research Presentations

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\*Indicates collaboration with a graduate student.

### 2023

\***Madison, M. J.**, Langi, M., & Suh, Y.-S. (2022, April). *Detecting learning progressions with longitudinal DCMs*. Paper presented at the 2022 Annual Meeting of the National Council on Measurement in Education.

### 2022

\***Madison, M. J.**, Langi, M., & Suh, Y.-S. (2022, April). *Detecting learning progressions with longitudinal DCMs*. Paper presented at the 2022 Annual Meeting of the National Council on Measurement in Education.

### 2021

\*Schellman, M., & **Madison, M. J.** (2021, July). *Estimating the reliability of skill transition in longitudinal DCMs*. Paper presented virtually at the 2021 International Meeting of the Psychometric Society.

\***Madison, M. J.**, Bradshaw, L., & Schellman, M. (2021, June). *Navy Education: Preliminary results and comparisons*. Paper presented virtually at the annual meeting of the National Council on Measurement in Education.

\***Madison, M. J.**, Bao, Y., Chung, S., Kim, J., & Bradshaw, L. (2021, June). *A Longitudinal Diagnostic Classification Model with Polytomous Attributes*. Paper presented virtually at the annual meeting of the National Council on Measurement in Education.

\***Madison, M. J.**, Fager, M., & Moore, A. (2021, June). *Weighing parsimony and flexibility in diagnostic classification model selection*. Paper presented virtually at the annual meeting of the National Council on Measurement in Education.

### 2020

**Madison, M. J.** (2020, April). *A longitudinal and hierarchical diagnostic classification model for evaluating learning progressions*. Paper to be presented at the annual meeting of the National Council on Measurement in Education in San Francisco, CA. Cancelled due to COVID-19 pandemic.

Fager, M., & **Madison, M. J.**, (2020, April). *Weighing parsimony and flexibility in diagnostic classification model selection*. Paper to be presented at the annual meeting of the National Council on Measurement in Education in San Francisco, CA. Cancelled due to COVID-19 pandemic.

### 2019

**Madison, M. J.**, Fager, M. (2019, October). *Revisiting diagnostic classification model invariance properties*. Paper presented at the annual meeting of the Northeastern Educational Research Association in Trumbull, CT.

**Madison, M. J.** (2019, April). *Effects of Item Parameter Drift on Longitudinal Diagnostic Classification Models*. Paper presented at the annual meeting of the National Council on Measurement in Education in Toronto, Ontario, CA.

\*Kim, J., **Madison, M. J.**, Chung, S., & Bradshaw, L. (2019, April). *Approaches to estimating longitudinal diagnostic classification models*. Paper presented at the annual meeting of the National Council on Measurement in Education in Toronto, Ontario, CA.

\*Soo, Y. S., **Madison, M. J.** (2019, April). *Effects of Local Dependence on Longitudinal Diagnostic Classification Models*. Paper presented at the annual meeting of the National Council on Measurement in Education in Toronto, Ontario, CA.

## **2018**

**Madison, M. J.**, & Bao, Y. (2018, July). *A longitudinal and polytomous diagnostic classification model*. Paper presented at the International Meeting of the Psychometric Society in New York, NY.

\*Keenan, E. G., **Madison, M. J.**, Wood, J. J., & Lerner, M. D. (2018, May). *Psychometric analysis of the autism spectrum quotient using diagnostic classification modeling*. Poster presented at the Annual Meeting of the International Society for Autism Research, Rotterdam, Netherlands.

**Madison, M. J.** (2018, April). *Item influence measures for diagnostic classification models*. Paper presented at the annual meeting of the National Council on Measurement in Education in New York, NY.

\*Cho, A. C. B., Wood, J., & **Madison, M. J.** (2018, January). *Personality matters: A latent profile analysis of personality subgroups in children with autism spectrum disorder*. Poster presented at the Annual Conference for the University of California Center for Research on Special Education, Disabilities, and Developmental Risk in Davis, CA.

## **2017**

**Madison, M. J.**, (2017, October). *A diagnostic approach to reliably assessing growth*. Paper presented at the annual meeting of the Northeastern Education Research Association in Trumbull, CT.

\*Cruz, E., & **Madison, M. J.** (2017, October). *Diagnosing teachers' statistical preparation: A Pilot Study*. Paper presented at the Annual Meeting of the Society for Advancement of Chicanos/Hispanics and Native Americans in Science in Salt Lake City, UT.

**Madison, M. J.**, & Bradshaw, L. (2017, April). *Evaluating intervention effects in a diagnostic classification model framework*. Paper presented at the annual meeting of the National Council on Measurement in Education in San Antonio, TX.

## **2016**

\*Grantham, T., **Madison, M. J.**, Collins, K., & Luckey, J. (2016, November). *Single-subject acceleration for gifted Black males using the Math Hall and Ball afterschool program*. Paper presented at the annual meeting of the National Association for Gifted Children in Orlando, FL.

**Madison, M. J.**, & Bradshaw, L. (2016, October). *Evaluating innovative instruction using a longitudinal diagnostic classification model*. Paper presented at the annual meeting of the Northeastern Education Research Association in Trumbull, CT.

**Madison, M. J.**, & Bradshaw, L. (2016, July). *Assessing growth in a general diagnostic classification model*. Paper presented at the International Meeting of the Psychometric Society in Asheville, NC.

Xiong, X., **Madison, M. J.**, & Mattar, J. (2016, April). *Speededness for task-based simulations items in a multi-stage licensure examination*. Paper presented at the annual meeting of the National Council on Measurement in Education in Washington, D.C.

**Madison, M. J.**, & Bradshaw, L. (2016, April). *Assessing growth in a diagnostic classification model framework*. Poster presented at the 2016 College of Education Graduate Student and Faculty Research Conference in Athens, GA.

## **2015**

**Madison, M. J.**, & Bradshaw, L. (2015, October). *Invariance properties for general diagnostic classification models*. Paper presented at the annual meeting of the Northeastern Education Research Association in Trumbull, CT.

**Madison, M. J.**, & Bradshaw, L. (2015, April). *Using  $Q^*$ Power to refine diagnostic assessment designs*. Paper presented at the annual meeting of the American Educational Research Association in Chicago, IL.

**Madison, M. J.** & Bradshaw, L. (2015, February). *Developing Diagnostic Formative Assessments in Graduate Statistics Courses*. Poster presented at the 2015 College of Education Graduate Student and Faculty Research Conference in Athens, GA.

## **2014**

**Madison, M. J.** & Bradshaw, L. (2014, April). *The effects of  $Q$ -matrix design on classification accuracy in the LCDM*. Poster presented at the 2014 College of Education Graduate Student and Faculty Research Conference in Athens, GA.

**Madison, M. J.**, Bradshaw, L., & Hollingsworth, B. (2014, April). *The role of  $Q$ -matrix design in diagnostic assessment*. Paper presented at the annual meeting of the National Council on Measurement in Education in Philadelphia, PA.

## **2013**

**Madison, M. J.** & Bradshaw, L. (2013, October). *The effects of Q-matrix design on classification accuracy in the LCDM*. Paper presented at the annual meeting of the Northeastern Education Research Association in Rocky Hill, CT.

**Madison, M. J.**, & Templin, J. (2013, April). *Group-mean centering in hierarchical linear models: A weighting approach*. Poster presented at the 2013 College of Education Graduate Student Research Conference in Athens, GA. Awarded 2<sup>nd</sup> place research prize.

## **2012**

Bradshaw, L., Brown, C., Cohen, A., **Madison, M. J.**, & Templin, J. (2012, December). *Evaluating the statistical properties of epistemic network analysis*. Poster presented at the 4<sup>th</sup> annual Discovery Research K-12 Meeting in Madison, WI.

Piatek-Jimenez, K., & **Madison, M. J.** (2012, November). *Equity in mathematics textbooks: A report on progress*. Poster presented at the annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education in Kalamazoo, MI.

Marcinek, T., & **Madison, M. J.** (2012, July). *Learning to interpret the mathematical thinking of others in pre-service mathematics courses: potential and limitations*. Paper presented at the 12th International Congress on Mathematical Education in Seoul, Korea.

Hamed, D., & **Madison, M. J.** (2012, April). *Factors affecting student achievement in business calculus*. Poster presented at the annual Student Research and Creative Endeavors Exhibition in Mount Pleasant, MI.

## **Invited Panels/Presentations/Workshops**

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**Madison, M. J.** (2022, October). *Switching jobs in academia and industry*. Invited panelist at the annual meeting of the Northeastern Educational Research Association in Trumbull, CT.

**Madison, M. J.** (2022, October). *Introduction to diagnostic measurement models*. Workshop presented at the annual meeting of the Northeastern Educational Research Association in Trumbull, CT.

**Madison, M. J.** (2022, October). *A one-parameter diagnostic classification model with familiar properties*. Invited presentation the Morgan State University Psychometric Colloquium Series.

**Madison, M. J.** (2020, June). *Graduate training in educational measurement and psychometrics: A curricula review of graduate programs in the U.S.* Invited panelist at the annual meeting of the National Council on Measurement in Education in San Francisco, CA. Virtual format due to COVID-19 pandemic.

**Madison, M. J.** (2020, April). *Advice on transitioning from graduate training to the professional world (GSIC Featured Session)*. Invited panelist at the annual meeting of the National



Council on Measurement in Education in San Francisco, CA. Cancelled due to COVID-19 pandemic.

**Madison, M. J.** (2019, December). *Some exciting applications of diagnostic classification models*. Invited presentation the University of Georgia Department of Educational Psychology.

**Madison, M. J.** (2019, December). *Longitudinal diagnostic classification models*. Guest lecture for ERSH 8140, University of Georgia Quantitative Methodology Program.

**Madison, M. J.** (2019, March). *Meaningful metrics in mathematics education research*. Invited presentation the UCLA Curtis Center Mathematics and Teaching Conference.

**Madison, M. J.** (2018, October). *Introduction to diagnostic measurement models*. Invited workshop to University of Massachusetts Amherst Research, Educational Measurement, and Psychometrics Program.

**Madison, M. J.** (2018, April). *A diagnostic classification analysis of an MDTP Test*. Invited presentation to the Working Group of the Mathematics Diagnostic Testing Project. Long Beach, CA.

**Madison, M. J.** (2018, March). *Meaningful metrics in educational research*. Invited presentation to the Quantitative Methodology Colloquium, University of Georgia Department of Educational Psychology.

**Madison, M. J.** (2018, February). *Getting more out of educational assessments*. Invited presentation to the Precision Institute at National University in San Diego, CA.

**Madison, M. J.** (2018, January). *Non-arbitrary metrics in educational research*. Invited presentation to the Teaching and Learning Lab (TALL), UCLA Department of Psychology.

**Madison, M. J.** (2017, October). *Getting ready to publish*. Invited panelist at the annual meeting of the Northeastern Educational Research Association in Trumbull, CT.

**Madison, M. J.** (2017, October). *Evaluating learning (and forgetting) over time via a diagnostic classification model*. Invited presentation to the Cognitive Psychology CogFog Meeting, UCLA Department of Psychology.

**Madison, M. J.** (2017, October). *Psychometric models for the reliable measurement of multiple latent traits*. Invited presentation to the UCLA Department of Statistics Research Seminar.

**Madison, M. J.** (2017, April). *Evaluating an instructional intervention with a longitudinal diagnostic model*. Invited presentation to the Human Development and Psychology Colloquium, UCLA Department of Education.

**Madison, M. J.** (2016, May). *Navigating the academic job market*. Invited presentation to Graduate Researchers in Educational Psychology at the University of Georgia.

**Madison, M. J.** (2016, January). *Getting more out of educational assessments*. Invited presentation at the 2016 University of Georgia College of Education Doctoral Recruitment Weekend in Athens, GA.

### **Technical Reports**

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**Madison, M. J.** (2018). *A Diagnostic Classification Analysis of an MDTP Test*. Technical Report. Mathematics Diagnostic Testing Project.

**Madison, M. J.** (2015). *Examining the Speediness of the Uniform CPA Examination*. Technical Report. American Institute of Certified Public Accountants.

### **Developed Software**

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**Madison, M. J., Bradshaw, L. (2015).** Q\*Power (1.0): A tool for prospective diagnostic assessment design. [Computer software]. Athens, GA.

### **Teaching Experience**

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#### **Graduate Courses**

Instructor: ERSH 8140 – Introduction to Diagnostic Measurement Models 2022  
University of Georgia

Instructor: ERSH 7800 – Survey of Latent Variable Models 2021  
University of Georgia

Instructor: ERSH 6300 – Applied Statistical Methods in Education 2021  
University of Georgia

Instructor: ERSH 8360 – Categorical Data Analysis in Education 2020  
University of Georgia

Instructor: EDF 9310 – Survey of Latent Variable Models 2020  
Clemson University

Instructor: EDF 9870 – Multivariate and Categorical Educational Research 2019  
Clemson University

Instructor: EDF 9770 – Multiple Regression / General Linear Models in Education 2019  
Clemson University

Instructor: EDF 9270 – Quantitative Research Design and Statistics in Education 2018

Clemson University

Instructor: EDUC 255 – Diagnostic Classification Models University of California – Los Angeles	2017
Instructor: EDUC 231C – Categorical Data Analysis University of California – Los Angeles	2017
Co-instructor: EDUC 288 – Research Apprenticeship Course University of California – Los Angeles	2017
Instructor: EDUC 230B – Linear Models in Social Sciences: Multiple Regression University of California – Los Angeles	2017, 2018
Instructor: EDUC 230A – Introduction to Research Design and Statistics University of California – Los Angeles	2016, 2017
Teaching Assistant: ERSH 8310 – Applied Analysis of Variance in Education University of Georgia	2013 – 2015

**Undergraduate Courses**

Instructor: MTH 217 – Business Calculus Central Michigan University	2012
GRE Mathematics Preparatory Instructor Central Michigan University Ronald E. McNair Scholars	2011 – 2012
Instructor: MTH 105 – Intermediate Algebra Central Michigan University	2009 – 2011
Instructor: MTH 055 – Beginning Algebra Central Michigan University	2010
Supplemental Instruction Leader: MTH 141 – Calculus I University of South Carolina	2006 – 2009

**Professional Development Training Sessions/Workshops**

**Madison, M. J.** (April, 2023). *Diagnostic Classification Models: Advanced Applications*. Half-day virtual training session presented at the annual meeting of the National Council on Measurement in Education.

**Madison, M. J.** (2022, October). *Introduction to diagnostic measurement models*. Invited workshop presented at the annual meeting of the Northeastern Educational Research Association in Trumbull, CT.

**Madison, M. J.** (2018, October). *Introduction to diagnostic measurement models*. Invited workshop to University of Massachusetts Amherst Research, Educational Measurement, and Psychometrics Program.

**Madison, M. J.** (April, 2019). *Diagnostic Classification Models: Advanced Applications*. Half-day training session presented at the annual meeting of the National Council on Measurement in Education in Toronto, Ontario, CA.

Bradshaw, L., & **Madison, M. J.** (April, 2018). *Diagnostic Classification Models Part I: Fundamentals*. Half-day training session presented at the annual meeting of the National Council on Measurement in Education in New York, NY.

**Madison, M. J.**, & Bradshaw, L. (April, 2018). *Diagnostic Classification Models Part II: Advanced Applications*. Half-day training session presented at the annual meeting of the National Council on Measurement in Education in New York, NY.

Bradshaw, L., & **Madison, M. J.** (April, 2017). *Diagnostic Measurement: Theory, Methods and Applications*. Full day training session presented at the annual meeting of the National Council on Measurement in Education in San Antonio, TX.

## **Mentorship**

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### **Ph.D. Dissertation Committee Member**

*In Progress*

Madeline Schellman, Quantitative Methodology, University of Georgia

### **Ph.D. Dissertation Committee Member**

*In Progress*

Ye Yuan, Quantitative Methodology, University of Georgia

### **Ph.D. Dissertation Committee Member**

*In Progress*

Cigdem Toptas, Quantitative Methodology, University of Georgia

### **M.A. Thesis Committee Chair**

*In Progress*

Sergio Haab, Quantitative Methodology, University of Georgia

### **M.A. Thesis Committee Chair**

*In Progress*

Armani Morris, Quantitative Methodology, University of Georgia

### **M.A. Thesis Committee Chair**

*In Progress*

Allen Moore, Quantitative Methodology, University of Georgia

**Ph.D. Dissertation Committee Member**

*In Progress*

Meina Bian, Quantitative Methodology, University of Georgia

**Ph.D. Dissertation Committee Member**

*In Progress*

Zach Feldberg, Quantitative Methodology, University of Georgia

**Ph.D. Dissertation Committee Member**

*In Progress*

Robert O'Hara, Learning Sciences, Clemson University

**Ph.D. Dissertation Committee Member**

*In Progress*

Georgia McKown, Learning Sciences, Clemson University

**M.A. Thesis Committee Member**

*Completed*

Yuchen Song, Applied Cognition and Development, University of Georgia

**M.Ed. Committee Chair**

*Completed*

Annessia Bullard, Quantitative Methodology, University of Georgia

**Postdoctoral Research Fellow Supervisor**

*Completed*

Eric Setoguchi, UCLA + National University Precision Institute

**Ph.D. Dissertation Committee Member**

*Completed*

Jiajun Xu, Quantitative Methodology, University of Georgia

**Ph.D. Dissertation Chair**

*Completed (2021)*

Karen Franklin, Learning Sciences, Clemson University

**Pre-/Postdoctoral Research Fellow Supervisor**

*Completed (2020)*

Meghan Fager, UCLA + National University Precision Institute

**Ph.D. Dissertation Co-Chair**

*Completed (2019)*

Eric Setoguchi, Social Research Methodology, UCLA

**Ph.D. Dissertation Committee Member**

*Completed (2019)*

Anne Blackstock-Bernstein, Human Development and Psychology, UCLA

**Ed.D. Dissertation Committee Member**

*Completed (2019)*

Christina E. Apostolakis, Educational Leadership, UCLA

**Second Year Project Committee Member**

*Completed (2018)*

An Cho, Human Development and Psychology, UCLA

**Service Activities/Leadership Positions**

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**Editorial Leadership and Service**

*Associate Editor*

Journal of Educational Measurement 2022 – Present

*Editorial Board Member*

Journal of Educational and Behavioral Statistics 2021 – Present

Educational Assessment 2020 – Present

Journal of Educational Measurement 2019 – 2022

*Peer Reviewer for Journals*

Applied Psychological Measurement

Behaviormetrika

British Journal of Mathematical and Statistical Psychology

Cognition and Instruction

Educational and Psychological Measurement

Educational Measurement: Issues and Practice

Frontiers in Psychology

International Journal of Methods in Psychiatric Research

International Journal of Testing

Journal of Psychoeducational Assessment

Psychometrika

*Peer Reviewer for Conferences and Organizations*

American Educational Research Association

Institute of Education Sciences

National Council on Measurement in Education

National Science Foundation

Northeastern Educational Research Association

Sage Publications

**Organizational Leadership and Service**

Faculty Search Committee 2023

University of Georgia

Department of Physics and Astronomy

Faculty Search Committee University of Georgia Department of Educational Psychology	2022
Task Force on Foundational Competencies National Council on Measurement in Education	2021 – Present
Quantitative Access and Diversity Working Group	2020 – Present
Chair, Diagnostic Measurement Special Interest Group National Council on Measurement in Education	2020 – Present
Brenda Loyd Outstanding Dissertation Award Committee National Council on Measurement in Education	2019 – Present
Merit Review Committee Clemson College of Education Department of Education and Human Development	2019
Faculty Search Committee Clemson College of Education Department of Education and Human Development	2018
Program Chair American Educational Research Association Special Interest Group 167: Cognition and Assessment	2018 – 2019
Outstanding Dissertation Committee American Educational Research Association, Division D	2018 – 2022
Membership Chair Northeastern Educational Research Association	2017 – 2018
Core Faculty Member UCLA Department of Education Educational Leadership Program	2017 – 2018
Academic Personnel Committee UCLA Department of Education	2017 – 2018
Faculty Search Committee UCLA Department of Psychology	2017 – 2018
California State University Sally Casanova Pre-Doctoral Scholars Program Undergraduate Research Faculty Mentor	2017

Membership Committee Northeastern Educational Research Association	2016 – 2017
DCMNET: Diagnostic Classification Model Network Listserv Owner and Operator	2016 – Present
Standards and Test Use Committee National Council for Measurement in Education	2015 – 2016
Project U-SPARC: Math Hall and Ball Co-director University of Georgia / Howard B. Stroud Elementary	2015
The 2014 Frasier Equity & Excellence STEM Conference Planning Committee University of Georgia, College of Education	2014 – 2015
Graduate Student Liaison American Educational Research Association Special Interest Group 167: Cognition and Assessment	2013 – 2016
Mathematics Curriculum Team University of Georgia	2013 – 2015
Training and Professional Development Committee National Council for Measurement in Education <i>Graduate Student Representative</i>	2013 – 2014
Graduate Researchers in Educational Psychology University of Georgia <i>Executive Committee: Treasurer</i> <i>Program Representative: Quantitative Methodology</i>	2013 – 2014 2012 – 2013

### **Other Professional Activities**

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<b>Psychometric Consultant</b> Navy Education	2018 – 2022
<b>Graduate Research Assistant</b> <i>Developing Enhanced Assessment Tools for Capturing Students' Procedural Skills and Conceptual Understandings in Mathematics.</i> United States Department of Education, Institute of Educational Sciences award number R324A150035.	2015 – 2016
<b>Psychometric Intern</b> American Institute of Certified Public Accountants	Summer 2015
<b>Graduate Assistant</b> <i>Georgia Center for Assessment</i>	2014 – 2015



**Graduate Research Assistant**

2012 – 2014

*AutoMentor: Virtual Mentoring and Assessment in Computer Games for STEM Learning.*

National Science Foundation: Division of Research on Learning award number 0918409.

**Software Skills**

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Fortran, Mplus, Python, R, SAS, SPSS, Visual Studio, Visual Basic, Linux

**Professional Affiliations**

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American Statistical Association	2015 – Present
Psychometric Society	2015 – Present
Northeastern Educational Research Association	2013 – Present
American Educational Research Association	2012 – Present
National Council on Measurement in Education	2012 – Present