

# Darryl Chamberlain Jr.

## Curriculum Vitae

### Education

- 2023 **Certificate, Applied Data Science with Python**, *University of Michigan (Coursera)*  
Five-course specialization sequence in Applied Data Science. [Credential URL](#)
- 2012–2017 **Ph.D., Mathematics and Statistics**, *Georgia State University*  
Qualifying Exams in Collegiate Mathematics Education, Abstract Algebra, and Matrix Analysis.  
Dissertation qualitatively modeled how students develop an understanding of proof by contradiction.
- 2007–2010 **B.S., Mathematics**, *University of Florida*

### Professional Experience

- 2021–present **Assistant Professor**, Department of Mathematics, Science, and Technology, Embry-Riddle Aeronautical University – Worldwide
- 2017–2021 **Assistant Instructional Professor**, Department of Mathematics, University of Florida
- 2013–2017 **Graduate Teaching Assistant**, Department of Mathematics and Statistics, Georgia State University
- 2011–2012 **Teacher**, Mathematics, William T. Dwyer High School, Palm Beach County, FL

### Administrative Experience

- Feb 2023–2025 **Associate Chair**, Department of Mathematics, Science, and Technology, Embry-Riddle Aeronautical University – Worldwide
- Jan–May 2024 **Acting Chair**, Department of Mathematics, Science, and Technology, Embry-Riddle Aeronautical University – Worldwide
- 2015–2016 **Emporium Lab Coordinator**, Department of Mathematics and Statistics, Georgia State University

### External Research Funding Experience

- \$400,000  
in preparation **Co-Principal Investigator**, *Collaborative Research: Responding to "Metacognitive Laziness": A Longitudinal Study of Human-AI Writing Processes*, with Emily Dux Speltz (ERAU PI), Kara Taczkak (UCF Lead PI), Meghan Velez (UCF co-PI), Michelle Taub (UCF co-PI), Joel Scheneier (UCF co-PI), and Anuj Gupta (USF co-PI). NSF Science of Learning and Augmented Intelligence, 2026-2030.
- \$400,000  
in preparation **Principal Investigator**, *Collaborative Research: Adaptive Assessments in Calculus*, with Russell Jeter (GSU Lead PI) and Kelvin Rozier (GSU co-PI). NSF Improving Undergraduate STEM Education (IUSE), 2026-2030.
- \$900,000  
under review **Co-Principal Investigator**, *Investigating Algorithm-Mediated Career Information and Human-AI Collaboration in Adaptive STEM Curriculum: Effects on Student Learning and Faculty Decision-Making*, with Ghazal Barari (PI), Robert Deters (co-PI), and Omar Ochoa (co-PI). NSF Research on Innovative Technologies for Enhanced Learning, 2026-2029.
- \$71,856  
unfunded **Principal Investigator**, *Investigating the Development and Impact of Culturally Relevant, AI-Powered Pedagogies in Postsecondary Mathematics Education*, with Audrey Malagon (MAA co-PI) and Gizem Karaali (Pomona co-PI). Spencer Foundation Vision Grant, 2025-2026.
- \$398,725  
unfunded **Principal Investigator**, *Collaborative Research: Adaptive Assessments in Calculus*, with Russell Jeter (GSU Lead PI) and Kelvin Rozier (GSU co-PI). NSF Improving Undergraduate STEM Education (IUSE), 2025-2029.
- \$26,962  
unfunded **Co-Principal Investigator**, *EXCELing in STEM: The Impact of Empowering Student Engagement with the Public*, with Emily Faulconer (PI), Amy Gruss (KSU supporting researcher), Effie Kartsonaki (Queensland supporting researcher), and Dong Jun Kim (New South Wales supporting researcher). Spencer Foundation Small Grants Program, 2025-2026.
- \$500  
funded **Principal Investigator**, *Asynchronous Discovery Activity - Learning to Fly with the Wind*, Doenet (DUE-1915294, DUE-1915363, DUE-1915438) Learning Experiment Mini-Grant, 2023-2024.

\$399,183 funded	<b>Co-Principal Investigator</b> , <i>Undergraduate Research for Fully Online STEM Students: Impact of Expanded Curricular Options on STEM Attitudes, Identity, &amp; Career Ambitions</i> , with Robert Deters (PI), Emily Faulconer (co-PI), Brent Terwilliger (co-PI). NSF Improving Undergraduate STEM Education (IUSE), 2023-2026.
\$237,298 funded	<b>Co-Principal Investigator</b> , <i>Community of Inquiry and Cognitive Load in Online STEM: Persistence, Performance, and Perspectives</i> , with Emily Faulconer (PI) and Beverly Wood (co-PI). NSF Improving Undergraduate STEM Education (IUSE), 2021-2024.
\$271,543 unfunded	<b>Principal Investigator</b> , <i>Drilling Down into Concepts with Automatic and Diagnostic Item Generation (Auto-DIG)</i> , with Annie Burns-Childers (co-PI), Catherine Paolucci (co-PI), and Russell Jeter (consult). NSF Improving Undergraduate STEM Education (IUSE), Submitted October 2020.
\$202,184 unfunded	<b>Co-Principal Investigator</b> , <i>Using Video to Expand Communication of Mathematical Sciences Research</i> , with Catherine Paolucci (PI). National Science Foundation, Submitted October 2020.
\$99,960 unfunded	<b>Principal Investigator</b> , <i>NSF ECR Core Research: Analyzing a Novel College Algebra Curriculum and Implementation</i> , with Russell Jeter (consult). NSF Directorate for STEM Education Core Research (ECR: Core), Submitted October 2019.
\$340,764 funded	<b>Graduate Research Assistant (2016–2017); Other Professional (2017–2021), Promoting Reasoning in Undergraduate Mathematics (PRIUM)</b> , with Draga Vidakovic (PI), Valerie Miller (Co-PI), and Guantao Chen (Co-PI). NSF Improving Undergraduate STEM Education (IUSE), 2016-2022.

## Internal Research Funding Experience

\$26,000 funded	<b>Co-Principal Investigator</b> , <i>Developing AI-Assisted Writing Technologies to Enhance College Writers' Processes</i> , with Emily Dux Speltz (PI). ERAU Faculty Innovative Research in Science and Technology (FIRST) Grant, 2025-2026.
\$2,000 funded	<b>Co-Principal Investigator</b> , <i>Generative AI Feedback Across the Disciplines: A College of Arts and Sciences Pilot Study</i> , with Alex Rister (PI), Anastasia Angelopoulou (co-PI), Cihan Aydiner (co-PI), Iuliia Hoben (co-PI), Logan Gerber-Chavez (co-PI), Zackery Reed (co-PI), and Meghan Velez (co-PI). ERAU-WW COAS Start-Up Funding, 2024.
\$6,000 funded	<b>Principal Investigator</b> , <i>Collective Knowledge Progression and Proliferation in Asynchronous Calculus Discussion Boards</i> , with Zackery Reed (co-PI) and Karen Keene (co-PI). ERAU-WW Faculty Seed Grant, 2023.
\$4,069 funded	<b>Principal Investigator</b> , <i>Developing Autonomous, Targeted Feedback in Precalculus</i> , ERAU-WW Faculty Seed Grant, 2021-2022.
\$29,923 funded	<b>Co-Principal Investigator</b> , <i>Examining and addressing the content knowledge development needs of Florida's aspiring and newly-qualified mathematics teachers</i> , with Catherine Paolucci (PI) and Christopher Redding (Co-PI). UF Internal Grant, 2020-2021.

## Manuscripts Under Review

- [2] Faulconer, E., Hiscox, T., **Chamberlain Jr., D.**, & Mittelstadt, K. (under review January 2026). *Fostering Self-Regulated Learning in Asynchronous Undergraduate STEM using Interactive H5P Content*. Active Learning in Higher Education.  
*CRediT Roles:* Data Curation, Formal Analysis, Methodology, Visualization, Writing - Original Draft.
- [1] **Chamberlain Jr., D.**, Dux Speltz, E., Velez, M., Reed, Z., & Gerber-Chavez, L. (under review January 2026). *What's in the Box? Exploring the (Non)-Predictability of ChatGPT's Grading of Student Writing*. Journal of Writing Analytics.  
*CRediT Roles:* Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Investigation, Methodology, Project Administration, Software, Visualization, Writing - Original Draft.

## Peer-Reviewed Journal Articles and Book Chapters

- [10] **Chamberlain Jr., D.**<sup>1</sup>, Jeter, R.<sup>1</sup>, & Rozier, K. (conditional acceptance December 2025). *Towards an Integrated Methodology for Assessing Item Discrimination in Mathematics Assessments*. Intersection: A Journal at the Intersection of Assessment and Learning.  
*CRediT Roles:* Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Administration, Software, Visualization, Writing - Original Draft.

<sup>1</sup>Co-first authors.

- [9] **Chamberlain Jr., D.** & Faulconer, E. (2025). *Structural Framework for Interactions Between Community of Inquiry Presences, Cognitive Load, Demographics, and Grades*. Active Learning in Higher Education. DOI: 10.1177/14697874251385801  
*CRediT Roles:* Data Curation, Formal Analysis, Methodology, Visualization, Writing - Original Draft, Writing - Review & Editing.
- [8] Velez, M., Reed, Z., **Chamberlain Jr., D.**, & Aydiner, C. (2025). *Black Boxes Revisited: Understanding GenAI Responses to Students' Written Work*. Thresholds in Education. <https://academyforeducationalstudies.org/wp-content/uploads/2025/04/velez-et-al-final.pdf>  
*CRediT Roles:* Data Curation, Formal Analysis, Methodology, Writing - Original Draft.
- [7] Reed, Z., **Chamberlain Jr., D.**, & Ramirez, L. (2025). *A Framework for Analyzing Asynchronous Discussion Activities*. Teaching and Learning Mathematics Online 2e, CRC Press, FL.  
*CRediT Roles:* Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Investigation, Methodology, Project Administration, Software, Visualization, Writing - Original Draft, Writing - Review & Editing.
- [6] **Chamberlain Jr., D.** (2023). *How one instructor can teach a large-scale, mastery-based College Algebra course online*. Problems, Resources, and Issues in Mathematics Undergraduate Studies. DOI: 10.1080/10511970.2023.2190183.
- [5] Faulconer, E., **Chamberlain Jr., D.**, & Wood, B. (2022). *A Case Study of Community of Inquiry Presences and Cognitive Load in Asynchronous Online STEM Courses*. Online Learning Journal. DOI: <http://dx.doi.org/10.24059/olj.v26i3.3386>.  
*CRediT Roles:* Data Curation, Formal Analysis, Methodology, Software, Visualization, Writing - Original Draft, Writing - Review & Editing.
- [4] **Chamberlain Jr., D.** & Vidakovic, D. (2021). *Cognitive trajectory of proof by contradiction for Transition-to-Proof students*. Journal of Mathematical Behavior. DOI: 10.1016/j.jmathb.2021.100849.  
*CRediT Roles:* Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Administration, Writing - Original Draft, Writing - Review & Editing.
- [3] **Chamberlain Jr., D.**<sup>1</sup> & Jeter, R.<sup>1</sup> (2020). *Creating diagnostic assessments: Automated distractor generation with integrity*. Journal of Assessment in Higher Education. DOI: 10.32473/jahe.v1i1.116892.  
*CRediT Roles:* Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Investigation, Methodology, Project Administration, Software, Visualization, Writing - Original Draft, Writing - Review & Editing.
- [2] **Chamberlain Jr., D.**, Grady, A., Keeran, S., Knudson, K., Manly, I., Shabazz, M., Stone, C., & York, A. (2020). *Transitioning to an active learning environment for calculus at the University of Florida*. Problems, Resources, and Issues in Mathematics Undergraduate Studies. DOI: 10.1080/10511970.2020.1769235.  
*CRediT Roles:* Conceptualization, Data Curation, Formal Analysis, Methodology, Writing - Original Draft, Writing - Review & Editing.
- [1] Stalvey, H., Burns, A., **Chamberlain Jr., D.**, Kemp, A., Meadows, L., & Vidakovic, D. (2019). *Students' understanding of the concepts involved in hypothesis testing for one population*. Journal of Mathematical Behavior. DOI: 10.1016/j.jmathb.2018.03.011.  
*CRediT Roles:* Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Writing - Original Draft, Writing - Review & Editing.

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## Peer-Reviewed Conference Proceedings [asterisk denotes presenter]

- [17] Deters, R.\*, **Chamberlain Jr., D.**, Terwilliger, B., & Faulconer, E. (2026, Jun 21). *Measuring College Students' Identity, Attitude, and Career Ambition: Sponsored Through NSF IUSE*. American Society for Engineering Education (ASEE) 2026 Annual Conference and Exposition, Charlotte, NC.  
*CRediT Roles:* Data Curation, Formal Analysis, Investigation, Methodology, Visualization, Writing - Original Draft, Writing - Review & Editing.
- [16] Terwilliger, B.\*, Deters, R., & **Chamberlain Jr., D.** (2025, Jul 30). *Exploring the Efficacy of Virtual Research Mentorship for Online Undergraduate Projects*. Distance Learning Administration (DLA) 2025 Annual Conference and Exposition, Jekyll Island, GA.  
*CRediT Roles:* Data Curation, Formal Analysis, Investigation, Methodology, Visualization, Writing - Original Draft, Writing - Review & Editing.

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<sup>1</sup>Co-first authors.

- [15] Deters, R.\*, Terwilliger, B., Faulconer, E., George, K., & **Chamberlain Jr., D.** (2025, Jun 22-25). *Impact of the COVID-19 Pandemic on Online Student Interest and Engagement in Undergraduate Research*. American Society for Engineering Education (ASEE) 2025 Annual Conference and Exposition, Montreal, Canada.  
CRediT Roles: Formal Analysis, Visualization, Writing - Original Draft, Writing - Review & Editing.
- [14] **Chamberlain Jr., D.** (2025, Feb 27). *Choices You Make Should Matter: Asynchronous Discovery Activities*. Poster at the 27th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Alexandria, VA.
- [13] **Chamberlain Jr., D.<sup>1</sup>**, Jeter, R.\*<sup>1</sup>, & Rozier, K. (2025, Feb 27). *Distractor-Based Distractors: Adventures in Assessment Item Analysis*. Poster at the 27th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Alexandria, VA.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Administration, Software, Visualization, Writing - Original Draft, Writing - Review & Editing.
- [12] **Chamberlain Jr., D.\***, McGuinness, P., Faulconer, E., & Wood, B. (2024, Feb 22-24). *Using Trees to See a Forest: Leveraging Machine Learning to Classify Student Thinking*. Poster at 26th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Omaha, NE.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Writing - Original Draft, Writing - Review & Editing.
- [11] **Chamberlain Jr., D.\***, Reed, Z.\*<sup>1</sup>, & Keene, K. (2023, Feb 23-25). *Adapting the Argumentative Knowledge Construction Framework to Asynchronous Mathematical Discussions*. 25th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Omaha, NE.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Investigation, Methodology, Project Administration, Software, Visualization, Writing - Original Draft, Writing - Review & Editing.
- [10] Bailey, T.\*<sup>1</sup>, **Chamberlain Jr., D.\***, & Christodouloupolou, K. (2022, Feb 24-26). *Undergraduate's covariational reasoning across function representations*. 24th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Boston, MA.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Investigation, Methodology, Project Administration, Writing - Original Draft, Writing - Review & Editing.
- [9] Reed, Z.\*<sup>1</sup>, **Chamberlain Jr., D.\***, & Keene, K. (2022, Feb 24-26). *Argumentative knowledge construction in asynchronous calculus discussion boards*. Poster at 24th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Boston, MA.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Investigation, Methodology, Visualization, Writing - Original Draft.
- [8] Kemp, A.\*<sup>1</sup>, **Chamberlain Jr., D.**, Cooley, L., Miller, V., & Vidakovic, D. (2020, Feb 27-29). *Student self- and simulated peer-evaluation of proof comprehension: Tina*. 23rd Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Boston, MA.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Writing - Original Draft, Writing - Review & Editing.
- [7] **Chamberlain Jr., D.\*** & Jeter, R. (2019, Feb 28-Mar 2). *Leveraging cognitive theory to create large-scale learning tools*. 22nd Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Oklahoma City, OK.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Investigation, Methodology, Project Administration, Software, Writing - Original Draft, Writing - Review & Editing.
- [6] **Chamberlain Jr., D.\*** & Vidakovic, D. (2018, Feb 22-24). *Developing proof comprehension and proof by contradiction through logical outlines*. 21st Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, San Diego, CA.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Administration, Writing - Original Draft, Writing - Review & Editing.
- [5] Burns, A.\*<sup>1</sup>, **Chamberlain Jr., D.**, Kemp, A.\*<sup>1</sup>, Meadows, L., Stalvey, H., & Vidakovic, D. (2018, Feb 22-24). *Reasoning about one population hypothesis testing: The case of Steve*. 21st Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, San Diego, CA.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Writing - Original Draft, Writing - Review & Editing.

- [4] **Chamberlain Jr., D.\*** & Vidakovic, D. (2017, Feb 23-25). *Developing student understanding: The case of proof by contradiction*. 20th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, San Diego, CA.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Administration, Writing - Original Draft, Writing - Review & Editing.
- [3] Burns, A.\*, **Chamberlain Jr., D.**, Kemp, A.\*., Meadows, L., Stalvey, H., & Vidakovic, D. (2017, Feb 23-25). *Students' understanding of test statistics in hypothesis testing*. 20th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, San Diego, CA.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Writing - Original Draft, Writing - Review & Editing.
- [2] Abel, T.\*., Brazas, J.\*., **Chamberlain Jr., D.**, & Kemp, A. (2017, Feb 23-25). *Characterizing mathematical digital literacy: A preliminary investigation*. 20th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, San Diego, CA.  
CRediT Roles: Data Curation, Formal Analysis, Investigation, Writing - Original Draft, Writing - Review & Editing.
- [1] **Chamberlain Jr., D.\*** & Vidakovic, D. (2016, Feb 25). *Use of strategic knowledge in a transition-to-proof course: Differences between an undergraduate and graduate student*. 19th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Pittsburgh, PA.  
CRediT Roles: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Administration, Writing - Original Draft, Writing - Review & Editing.

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## National/International Conference Presentations [asterisk denotes presenter]

- [14] Dux Speltz, E.\*., **Chamberlain Jr., D.\***, Aik, M., Blood, B., & Zaldivar, Z. (2026, Mar 13). *Designing Process-focused Feedback for College Writers Using GenAI*. 5th Hawaii International Conference on English Language and Literature Studies (HICELLS), Hilo, HI.  
CRediT Roles: Data Curation, Formal Analysis, Investigation, Methodology, Visualization, Writing - Original Draft, Writing - Review & Editing.
- [13] Jeter, R.\*., **Chamberlain Jr., D.\***, & Rozier, K. (2025, Aug 8). *Integrated Methodology for Assessing Items in Mathematics Assessments*. Mathematical Association of America MathFest, Sacramento, CA.
- [12] **Chamberlain Jr., D.\*** & Nowell, J. (2025, Feb 19). *Longitudinal Impacts Analysis of Course Designs on Future Course Success*. Intersections: Online Learning and Innovation in Higher Education, Orlando, FL.
- [11] **Chamberlain Jr., D.\***, Faulconer, E., Terwilliger, B., & Deters. R. (2024, Nov 7). *Cultivating Cyber Scholars: Research Support for Online STEM Students*. American Association of Colleges and Universities (AAC&U) 2024 Transforming STEM Higher Education Conference, Arlington, VA.
- [10] Faulconer, E., Terwilliger, B.\*., Deters. R., & **Chamberlain Jr., D.** (2024, Jul 30). *Supporting Undergraduate Research for Fully Online Students*. Distance Learning Administration Conference, Jekyll Island, GA.
- [9] Velez, M.\*., **Chamberlain Jr., D.**, & Hoben, I. (2024, Jul 22-24). *Beyond Text Generation: Incorporating GenAI Feedback in Asynchronous Online Courses*. 2nd Annual Teaching and Learning with AI Conference, Orlando, FL.
- [8] **Chamberlain Jr., D.\*** & Quinlan, J. (2023, Aug 2). *Technology Use in Undergraduate Mathematics Classrooms*. 2023 Mathematical Association of America MathFest, Tampa, FL.
- [7] Faulconer, E.\*., **Chamberlain Jr., D.\***, & Wood, B. (2022, April 13). *Instructional Efficiency in Asynchronous Online Discussions*. Online Learning Consortium Innovate Conference, Dallas, TX.
- [6] Paolucci, C.\*., **Chamberlain Jr., D.**, & Vancini, S.\* (2022, Apr 7). *Investigating Alternatively-certified Teachers' Mathematical Knowledge for Teaching Calculus*. Joint Mathematics Meeting, Seattle, WA.
- [5] **Chamberlain Jr., D.\*** & Jeter, R. (2021, Jan 7). *Automated AF: Leveraging Augmented Intelligence to Provide Automated, Actionable Feedback*. Joint Mathematics Meeting, Washington, D.C. (virtual).
- [4] **Chamberlain Jr., D.\*** (2020, Jul 30). *Drilling Down into Content with Auto-DIG: Automatic Diagnostic Item Generation*. MAA MathFest, Philadelphia, PA. Session canceled due to COVID-19 pandemic.
- [3] **Chamberlain Jr., D.\*** (2020, Jan 18). *Mastery-based Assessment in a Large-enrollment Online College Algebra Course*. Joint Mathematics Meeting, Denver, CO.

- [2] **Chamberlain Jr., D.**, Knudson, K., Grady, A.\*, Keeran, S., Manly, I., Shabazz, M., Stone, C., & York, A. (2020, Jan 18). *Active Calculus at the University of Florida*. Joint Mathematics Meeting, Denver, CO.
- [1] **Chamberlain Jr., D.\*** & Vidakovic, D. (2017, Jan 5). *A First Lesson on Proof by Contradiction: Developing Proof Comprehension in a Transition-to-proof Course*. Joint Mathematics Meeting, Atlanta, GA.

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## Regional Conference Presentations [asterisk denotes presenter]

- [6] **Chamberlain Jr., D.\***, Reed, Z., & Keene, K. (2021, Nov 20). *Investigating Social Construction of Knowledge During Asynchronous Discussions*. 5th Northeastern Conference on Research in Undergraduate Mathematics Education. New Brunswick, NJ (virtual).
- [5] Babiceanu, L.\* & **Chamberlain Jr., D.** (2021, Feb 20). *Analyzing Student Achievement with Residential and Online Students in College Algebra*. Florida Section of the Mathematical Association of America and Florida Two-Year College Mathematics Association 2021 Joint Meeting, Gainesville, FL (virtual).
- [4] **Chamberlain Jr., D.\*** & Vidakovic, D. (2020, Oct 3). *Potential Cognitive Obstacles to Understanding Proof by Contradiction*. 4th Northeastern Conference on Research in Undergraduate Mathematics Education. Philadelphia, PA (virtual).
- [3] Jeter, R.\* & **Chamberlain Jr., D.** (2018, Mar 24). *A Novel Method for Creating Assessment and Diagnostic Tools in the Classroom*. MAA Southeastern Spring Sectional Meeting, Clemson, SC.
- [2] **Chamberlain Jr., D.\*** & Vidakovic, D. (2017, Mar 11). *Active Learning in Transition-to-Proof Courses: An Example Lesson of Proof by Contradiction*. AMS Southeastern Spring Sectional Meeting, Charleston, SC.
- [1] **Chamberlain Jr., D.\***, Kemp, A.\*, Meadows, L.\*., Stalvey, H., Vidakovic, D., & Burns, A. (2016, Mar 5). *The Emporium Model for Elementary Statistics: A Preliminary Report*. AMS Southeastern Spring Sectional Meeting, Athens, GA.

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## Local Conference Presentations [asterisk denotes presenter]

- [9] **Chamberlain Jr., D.\***, Jeter, R., & Rozier, K. (2025, Apr 16) *Who Assesses the Assessments? Methodology for Classifying Assessment Items*. 2025 Division of Academic Innovation (DAI) Virtual Conference (virtual).
- [8] Dux Speltz, E., Hoban, I.\*., Rister, A.\*., Aydinlar, C., **Chamberlain Jr., D.**, Corbin, T., Gerber-Chavez, L., & Reed, Z. (2025, Apr 15) *Navigating the Frontier: Innovations and Insights in AI Research and Education*. 2025 Division of Academic Innovation (DAI) Virtual Conference (virtual).
- [7] Reed, Z.\* & **Chamberlain Jr., D.** (2025, Feb 14). *Promoting Argumentation and Discourse in Mathematics Courses*. 3rd Annual Humanistic STEM Symposium, Daytona Beach, FL (virtual).
- [6] **Chamberlain Jr., D.\***, Reed, Z.\*., Rister, A.\*., & Velez, M.\* (2023, Feb 7). Roundtable discussion: *Practical Suggestions to Improve Online Discussions Across Disciplines*. 2023 Division of Academic Innovation (DAI) Virtual Conference (virtual).
- [5] **Chamberlain Jr., D.\*** & Jeter, R. (2020, Oct 20). *Incorporating Augmented Intelligence to Enhance Learning: Automatic and Diagnostic Item Generation (Auto-DIG)*. STEMpowered Faculty Symposium, Gainesville, FL (virtual).
- [4] **Chamberlain Jr., D.\*** & Jeter, R. (2019, Apr 5). *Creating Diagnostic Assessments: Automated Distractor Generation With Integrity*. 2019 Assessment in Higher Education: Enhancing Institutional Excellence, Gainesville, FL.
- [3] **Chamberlain Jr., D.\*** & Vidakovic, D. (2015, Apr 17). *APOS Theory in the Classroom*. Center for Instructional Effectiveness Annual Conference, Atlanta, GA.
- [2] **Chamberlain Jr., D.\***, Vidakovic, D., Stalvey, H., Burns, A., Meadows, L., & Kemp, A.\* (2015, Apr 10). *Student Understanding of One Population Hypothesis Testing: A Piece of the Process*. Mathematics Graduate Student Miniconference, Atlanta, GA.
- [1] **Chamberlain Jr., D.\*** & Vidakovic, D. (2015, Apr 10). *Teaching Proofs with APOS Theory*. Mathematics Graduate Student Miniconference, Atlanta, Ga.

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## Conference Session or Workshop Organization

- [11] **Chamberlain Jr., D.**, Edwards, A., Gaines, B., Jahangiri, Nucci, D., Oxman, V., Rittby, K., Slagel, T., & Weisbrod, J. (2026, Aug 5-8). Session *Innovation, Evidence, and Applications of AI in Teaching and Learning Mathematics*. 2026 MAA MathFest, Boston, MA.
- [10] Rittby, K., Slagel, T., Gaines, B., & **Chamberlain Jr., D.** (2026, Apr 10-11). Session *AI in the Classroom: What's Working (and What's Not)*. 2026 MAA Virtual AI Conference, Virtual.
- [9] **Chamberlain Jr., D.**, Reed, Z., & Margolis, C. (2025, Feb 27). Workshop: *Research on Technology in Undergraduate Mathematics Education*. 27th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Alexandria, VA.
- [8] **Chamberlain Jr., D.** & Reed, Z. (2024, Feb 22). Workshop: *Research on Technology in Undergraduate Mathematics Education*. 26th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Omaha, NE.
- [7] **Chamberlain Jr., D.** & Barber, R. (2023, Aug 2). Session: *Unspoken Research Components*. 2023 MAA MathFest, Tampa, FL.
- [6] **Chamberlain Jr., D.** & Barber, R. (2023, Aug 2). Session: *Building a Research Program*. 2023 MAA MathFest, Tampa, FL.
- [5] **Chamberlain Jr., D.**, Reed, Z., & Keene, K. (2023, Feb 23). Workshop: *Research on Technology in Undergraduate Mathematics Education*. 25th Annual Conference on Research in Undergraduate Mathematics Education: SIGMAA on RUME, Omaha, NE.
- [4] **Chamberlain Jr., D.**, Acu, B., & Gasiorek, S. (2023, Jan 3). Session: *Navigating the Early Years of the Faculty Experience*. 2023 Joint Mathematics Meeting, Boston, MA.
- [3] Vidakovic, D., Stalvey, H., **Chamberlain Jr., D.**, Kemp, A., Meadows, L., & Kellam, A. (2018, Mar 23-24). Session: *Active Learning in Undergraduate Mathematics*. MAA Spring 2018 Southeastern Section Conference, Clemson, SC.
- [2] Vidakovic, D., Stalvey, H., **Chamberlain Jr., D.**, Kemp, A., & Meadows, L. (2017, Mar 10-12). Session: *Active Learning in Undergraduate Mathematics*. AMS Spring 2017 Southeastern Regional Conference, Charleston, SC.
- [1] Vidakovic, D., Stalvey, H., **Chamberlain Jr., D.**, Kemp, A., & Meadows, L. (2016, Mar 5-6). Session: *Active Learning in Undergraduate Mathematics*. AMS Spring 2016 Southeastern Regional Conference, Athens, GA.

## Invited Talks

- [9] **Chamberlain Jr., D.** (2025, Apr 11). *Modeling Student Thinking to Improve Mathematics Assessments*. Invited by Georgia State University Department of Mathematics and Statistics Seminar Series.
- [8] **Chamberlain Jr., D.** (2024, Mar 21). *Constructing Isn't Enough: Considering All Aspects of Proof*. Invited by University of Florida College of Education Special Topics Seminar Course.
- [7] **Chamberlain Jr., D.** (2024, Mar 18). *What Your Course Design Says About You: How Epistemological Lens Can Drive Course Design*. Invited by University of Florida Mathematics Department Pedagogy Seminar Series.
- [6] **Chamberlain Jr., D.** (2023, Mar 29). *Predicting Students' Thoughts to Provide Elaborative Feedback*. Invited by California State University Bakersfield Mathematics Department Seminar Series.
- [5] Faulconer, E., Bourdeau, D., Kiernan, K., & **Chamberlain Jr., D.** (2023, Jan 21). *Non-Traditional Scholarly Publication*. Invited by Embry-Riddle Aeronautical University – Worldwide Research Scholars Program.
- [4] **Chamberlain Jr., D.** & Faulconer, E. (2022, Apr 21). *How We Manage Large-Scale Data Collection*. Invited by Embry-Riddle Aeronautical University – Worldwide College of Arts and Sciences Brown Bag Lunch & Learn Series.
- [3] Paolucci, C. & **Chamberlain Jr., D.** (2021, Mar 25). *A profile of the content knowledge development needs of Florida's alternatively-certified teachers*. Invited by University of Florida Education Policy Research Center Research Brown Bag Series.
- [2] **Chamberlain Jr., D.** (2020, Nov 13). *Integrating Augmented Intelligence into Mathematics Education*. Invited by Florida International University Mathematics Education Seminar.
- [1] **Chamberlain Jr., D.** (2020, Sept 17). *Automatic and Diagnostic Item Generation*. Invited by the University of Florida Lastinger Center.

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## Local Session or Workshop Organization

- [20] Terwilliger, B., Deters, R., & **Chamberlain Jr., D.** (2025, November). *Understanding the Research Sphere: Beyond ERAU-Worldwide*. ERAU Worldwide Research Scholars Workshop Series.
- [19] **Chamberlain Jr., D.**, Terwilliger, B., & Deters, R. (2025, October). *Technical Tools & Platforms for Virtual Research*. ERAU Worldwide Research Scholars Workshop Series.
- [18] Deters, R., Terwilliger, B., & **Chamberlain Jr., D.** (2025, September). *Navigating RSP Research Funding & Support*. ERAU Worldwide Research Scholars Workshop Series.
- [17] Terwilliger, B., Deters, R., & **Chamberlain Jr., D.** (2025, August). *Field Notes From Scholars: A Showcase of Student Work*. ERAU Worldwide Research Scholars Workshop Series.
- [16] Terwilliger, B., Deters, R., **Chamberlain Jr., D.**, Protas, M., & Reed, Z. (2025, May). *What Research Can Be Done Online?* ERAU Worldwide Research Scholars Workshop Series.
- [15] Deters, R., Terwilliger, B., & **Chamberlain Jr., D.** (2025, April). *Research Sprint and Idea Blitz*. ERAU Worldwide Research Scholars Workshop Series.
- [14] **Chamberlain Jr., D.**, Deters, R., & Terwilliger, B. (2025, March). *Open Data & Data Papers*. ERAU Worldwide Research Scholars Workshop Series.
- [13] **Chamberlain Jr., D.**, Deters, R., & Terwilliger, B. (2025, February). *Identifying Research Gaps & Developing Original Ideas*. ERAU Worldwide Research Scholars Workshop Series.
- [12] Terwilliger, B., Deters, R., & **Chamberlain Jr., D.** (2025, January). *Research Networking in the Online World*. ERAU Worldwide Research Scholars Workshop Series.
- [11] **Chamberlain Jr., D.**, Deters, R., Terwilliger, B., & Faulconer, E. (2024, October). *Staying Current on Research Advancements in Your Field*. ERAU Worldwide Research Scholars Workshop Series.
- [10] Deters, R., Terwilliger, B., **Chamberlain Jr., D.**, & Faulconer, E. (2024, September). *Navigating Common Student Research Challenges*. ERAU Worldwide Research Scholars Workshop Series.
- [9] Deters, R., Terwilliger, B., **Chamberlain Jr., D.**, & Faulconer, E. (2024, August). *How to Use the WW-RSP Canvas Site & Other Resources*. ERAU Worldwide Research Scholars Workshop Series.
- [8] Deters, R., Faulconer, E., Terwilliger, B., & **Chamberlain Jr., D.** (2024, June). *Mentoring: A Guided Expedition Through Research Pathways*. ERAU Worldwide Research Scholars Workshop Series.
- [7] Faulconer, E., Deters, R., Terwilliger, B., & **Chamberlain Jr., D.** (2024, May). *Submitting to Beyond*. ERAU Worldwide Research Scholars Workshop Series.
- [6] Terwilliger, B., Deters, R., Faulconer, E., & **Chamberlain Jr., D.** (2024, April). *Innovative Dissemination*. ERAU Worldwide Research Scholars Workshop Series.
- [5] Terwilliger, B., Deters, R., Faulconer, E., & **Chamberlain Jr., D.** (2024, March). *Marketing Your Research Experience*. ERAU Worldwide Research Scholars Workshop Series.
- [4] Faulconer, E., Deters, R., Terwilliger, B., & **Chamberlain Jr., D.** (2024, February). *Discovery Day 2024*. ERAU Worldwide Research Scholars Workshop Series.
- [3] Deters, R., Terwilliger, B., Faulconer, E., & **Chamberlain Jr., D.** (2024, January). *Funding Your Research*. ERAU Worldwide Research Scholars Workshop Series.
- [2] **Chamberlain Jr., D.**, Faulconer, E., Terwilliger, B., & Deters, R. (2023, November). *Current Research Opportunities*. ERAU Worldwide Research Scholars Workshop Series.
- [1] Faulconer, E., Terwilliger, B., Deters, R., & **Chamberlain Jr., D.** (2023, October). *Meet the Mentors*. ERAU Worldwide Research Scholars Workshop Series.

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## White Papers

- [5] **Chamberlain Jr., D.**, Rittby, K., Gaines, B., & Slagel, J.T. (2025). The Fear-Opportunity Spectrum of Generative AI in the Mathematics Classroom. *MAA FOCUS*, 17(3), 16-19. <http://digitaleditions.walsworthprintgroup.com/publication/?m=7656&l=1>  
*CRediT Roles:* Writing - Original Draft, Writing - Review & Editing.
- [4] Reid et al. (2024). Voices from the field: How did you come to engage in students-as-partners work? *International Journal for Students as Partners*, 8(2), 241-259. <https://doi.org/10.15173/ijsap.v8i2.5872>  
*CRediT Roles:* Writing - Original Draft, Writing - Review & Editing.

- [3] Faulconer, E., **Chamberlain Jr., D.**, & Wood, B. (2024). *Community of Inquiry and Cognitive Load: Research Summary Document*. Zenodo. <https://doi.org/10.5281/zenodo.11398144>  
CRediT Roles: Data Analysis, Writing - Review & Editing.
- [2] Faulconer, E., **Chamberlain Jr., D.**, & Wood, B. (2024). *Community of Inquiry and Cognitive Load in online STEM: Transferability plan*. Zenodo. DOI: <https://doi.org/10.5281/zenodo.11203344>  
CRediT Roles: Data Analysis, Writing - Review & Editing.
- [1] Wood, B., Faulconer, E., & **Chamberlain Jr., D.**, (2024). *Gathering Nuanced Data for Understanding Student Withdrawals*. Zenodo. DOI: [10.5281/zenodo.11094757](https://doi.org/10.5281/zenodo.11094757)  
CRediT Roles: Writing - Review & Editing.

## Editorials

- [2] Faulconer, E. & **Chamberlain Jr., D.** (2025). *Leading the Spiral: Supporting Faculty in Curriculum Innovation*. The Department Chair, 35(4), DOI: <https://doi.org/10.1002/dch.30640>
- [1] Wood, B., Faulconer, E., & **Chamberlain Jr., D.** (2025). *Lessons from Professional Development for Remote STEM Faculty*. The Department Chair, 35(3), DOI: <https://doi.org/10.1002/dch.30625>

## Pre-Prints

- [3] **Chamberlain Jr., D.**<sup>1</sup>, Jeter, R.<sup>1</sup>, & Rozier, K. (2024, December 27). *An Integrated Methodology for Assessing Item Discrimination in Mathematics Assessments*. <https://doi.org/10.31235/osf.io/xvh7y>
- [2] **Chamberlain Jr., D.**, & Jeter, R. (2024, August 9). *Utilizing Theoretically-Driven Distractors to Make Diagnostic Multiple-Choice Assessments Possible*. <https://doi.org/10.31235/osf.io/vzhm7>
- [1] **Chamberlain Jr., D.**, & Faulconer, E. (2024, July 3). *Structural Framework for Interactions Between Community of Inquiry Presences, Cognitive Load, Demographics, and Grades*. <https://doi.org/10.31235/osf.io/7ay4t>

## Teaching Experience

- 2025–present **Introduction to Data Science Applications**, *Developer/Instructor*  
  - Asynchronous online with 10 – 20 students.
- 2024–present **Probability and Statistics**, *Developer/Instructor*  
  - Asynchronous online with 20 – 30 students.
- 2024–present **Boundary Value Problems**, *Developer/Instructor*  
  - Asynchronous online with 15 – 20 students.
- 2023–present **Introduction to Programming for Data Science**, *Developer/Instructor*  
  - Asynchronous online with 10 – 20 students.
- 2021–present **Precalculus for Aviation**, *Developer/Instructor*  
  - Asynchronous online with 20 – 30 students.
  - October 2022: EagleVision with 20 students.
- 2021–present **Precalculus Essentials**, *Instructor*  
  - Asynchronous online with 20 – 30 students.
- 2018–2021 **Analytic Geometry and Calculus I**, *Instructor*  
  - Fall 2019, Fall 2020: Special flipped class for ~15 Pre-Health PostBac students.
  - Summer 2018: Special flipped classroom with ~20 freshmen engineering students.
  - Spring 2018: Large lecture with 200+ students.
- Spring 2021 **Sets and Logic**, *Developer/Instructor*  
  - Modified Moore's Method with ~30 students.
- Summer 2019 **Analytic Geometry and Calculus II**, *Instructor*  
  - Flipped class with ~20 students.
- Spring 2019 **Elementary Differential Equations**, *Instructor*  
  - Large lecture with 120+ students.
- 2017–2021 **College Algebra**, *Developer/Coordinator/Instructor*  
  - Multiple sections of Pure Online (~150 students) and Hybrid (~200 students) per semester.
  - Curriculum overhaul with focus on understanding of functions.
  - Developed open-source online homework system/textbook with dynamically-generated problems.
  - Developed automatically-generated assessments based on students' varying levels of understanding functions.

<sup>1</sup>Co-first authors.

- 2013–2017 **Various courses**, *Instructor of Record as graduate student*
- Elementary Statistics (flipped, ~40 student sections).
  - Intermediate Algebra (traditional, ~20 student section).
  - College Algebra (flipped, ~40 student sections).
  - Support for College Algebra (co-req course, flipped, ~40 student sections).
  - Precalculus (flipped, ~40 student sections).

## Mentoring

- 2024–present **Graduate Research**
- 2020–present **Undergraduate Research**
- 2019–2020 **Masters of Arts in Teaching Mathematics**
- 2019–2021 **3<sup>rd</sup>\4<sup>th</sup> year First Generation Student Life Coach**
- 2018–2021 **University Minority Mentor Program**

## Professional Leadership

- 2022–present **Council Member** for Mathematical Association of America Council on Teaching and Learning (CTL).
- 2022–present **Subcommittee Chair** for Mathematical Association of America Subcommittee on Technology in Mathematics Education (STME). Member since 2021.
- 2022 **Nominating Committee Member** for the Research in Undergraduate Mathematics Education (RUME) community.
- 2021–present **Committee Member** for Mathematical Association of America Committee on the Teaching of Undergraduate Mathematics (CTUM).
- 2020–2022 **Program Committee Member** for Research in Undergraduate Mathematics Education (RUME) annual conferences.
- 2018–2019 **Huddle Leader** for the *Florida College System* year-long Florida Mathematics Re-Design workgroups.

## Professional Service

- 2022–present **Grant Reviewer** for the National Science Foundation.
- 2017–present **Journal Reviewer** for
  - *Scatterplot* since 2025;
  - *International Journal of Innovative Science and Modern Engineering* since 2024;
  - *Educational Studies in Mathematics* since 2022;
  - *Mathematical Thinking and Learning* since 2021;
  - *International Journal of Research in Mathematics Education* since 2020;
  - *Journal of Assessment in Higher Education* since 2019;
  - *Journal of Mathematical Behavior* since 2017; and
  - *Problems, Resources, and Issues in Mathematics Undergraduate Studies* since 2017.
- 2017 **Poster judge** for *Joint Mathematics Meeting, Atlanta, GA*.
- 2016–present **Conference Reviewer** for *Annual Conference on Research in Undergraduate Mathematics Education*.

## University Service

- 2025 **Committee Member** for ERAU-WW End-of-Course Faculty Survey committee.
- 2024 **Hiring Committee Member** for Director of IT Service Management & Worldwide IT Services.
- 2023–present **Educational Experiences Member** for the ERAU-WW Quality Enhancement Plan committee.
- 2023–present **Grant Reviewer** for ERAU Faculty Innovative Research in Science and Technology (FIRST) grant.
- 2022–2023 **Grant Reviewer** for ERAU-WW Faculty SEED grant.
- 2022–2025 **Academic Technology Committee Chair** for ERAU-WW Faculty Senate.

## College Service

- 2024 **Hiring Committee Member** for tenured Department Chair search for Department of Behavioral and Social Science.
- 2022–2023 **Faculty Council Member** for ERAU-WW College of Arts and Sciences.
- 2020–2021 **Steering Committee Member** for the University of Florida College of Liberal Arts and Sciences.

2019–2021 **Curriculum Committee Chair** for the University of Florida College of Liberal Arts and Sciences.  
*Member 2019–2020.*

2018 **Commencement Marshal** on behalf of the College of Liberal Arts and Sciences for the University of Florida's Spring 2018 and Summer 2018 undergraduate commencement ceremonies.

## Departmental Service

2024–present **Committee Member** for Department of Mathematics, Science, and Technology standing committees:

- Member**, Curriculum (*Chair 2024–2025*);
- Member**, Operations; and
- Member**, Research & Promotion.

2022–present **Program Coordinator** for Department of Mathematics, Science, and Technology programs:

- Bachelor's Degree in Data Science (2025–present);
- Minor in Applied Data Science (2022–present);
- Minor in Applied Mathematics (2022–2023);

2021–present **ERAU-WW Hiring Committee Participant**:

- Chair**, Tenure-track candidate in Physical Science (2024–2025);
- Member**, Tenured Department Chair (2024);
- Member**, Tenure-track candidate in Data Science (2022–2023)

2021–present **Course Mentor** for Department of Mathematics, Science, and Technology

- Current**
  - DSCI 411 - Applied Data Science Capstone (since 2025)
  - RSCH 395 - Publication-Ready STEM Research (since 2024)
  - DSCI 201 - Intro to Data Science (since 2024)
  - CSCI 251 - Intro to Programming for Data Science (since 2023)
  - STAT 412 - Probability & Statistics (since 2022)
- Past**
  - MATH 112 - Applied Calculus for Aviation (2023–2025)
  - MATH 111 - Pre-Calculus for Aviation (2022–2025)
  - MATH 502 - Boundary Value Problems (2021–2025)
  - MATH 546 - Application-Based Advanced Engineering Mathematics (2021–2024)
  - GNED 103 - Basic Mathematics (2021–2022)
  - MATH 106 - Basic Algebra & Trigonometry (2021–2022)

2020–2021 **Hiring Committee Member** for tenure-track candidate of University of Florida College of Education.

2017–2021 **Committee Member** at University of Florida Department of Mathematics for standing committees:

- Teaching Methods (*Chair 2019–2021*);
- Online Course Development;
- Teaching Assistant Training; and
- Undergraduate Committee Lower Division.

## Professional Affiliations

2025–present **SIGMAA on SDS-Ed**: Special Interest Group of the Mathematical Association of America on Statistics and Data Science Education.

2023–2025 **Tech in Math Ed (TiME) Organizer** for the special topic research group of SIGMAA on RUME.

2016–2018 **Proof Research Group** of SIGMAA on RUME

2015–2025 **SIGMAA on RUME**: Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education

2015–present **MAA**: Mathematical Association of America

## Awards and Fellowships

Aug 2025 **Recognition Award**, from ERAU-WW College of Arts and Sciences for dedicated service, hard work, and leadership during time as Associate Department Chair of Mathematics, Science, and Technology.

Aug 2024 **Recognition Award**, from ERAU-WW College of Arts and Sciences for dedicated service, hard work, and leadership during time as Acting Chair for the Department of Mathematics, Science, and Technology.

Apr 2023 **Monetary Award**, 2022–2023 Faculty 'Superstar' Champion badge from ERAU-WW COAS Dean and Chancellor.

- Apr 2023 **Recognition Award**, 2022-2023 ERAU-WW COAS Faculty Council Collegiality nominee.  
2022–2023 **Fellowship**, Mathematical Association of America Project NExT. Red22 cohort.

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## Travel Grants

- 2025 **Internal**, from ERAU-WW Faculty Development Research Program for Conference on Research in Undergraduate Mathematics Education, February 27 - March 1.
- 2024 **External**, from WestEd for Workshop on Future Directions for Mathematics Education Research, Policy, and Practice, April 17-19.
- 2023 **External**, from Institute for Mathematics and its Applications University of Minnesota for Workshop on Developing Online Learning Experiments Using Doenet, May 22-26.
- 2023 **Internal**, from ERAU-WW Faculty Development Research Program for Conference on Research in Undergraduate Mathematics Education, February 23-25.
- 2022 **Internal**, from ERAU-WW Faculty Development Research Program for Joint Mathematics Meeting 2022, January 5-8.
- 2021 **Internal**, from UF Center for Applied Mathematics for Joint Mathematics Meeting 2021, January 6-9.
- 2020 **Internal**, from UF College of Liberal Arts and Sciences for Joint Mathematics Meeting 2020, January 15-18.
- 2017 **External**, from the American Mathematical Society for the AMS Spring 2017 Southeastern Sectional Meeting, March 10-12.

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## Notable Coursework

- Mathematics** **33 Graduate-Level Credit Hours:** Advanced Matrix Analysis I & II, Abstract Algebra I & II, Real Analysis I & II, Partial Differential Equations, Special Topics in Mathematics I & II (Topology, Graph Theory), Directed Research (Graph Theory), Mathematical Biology. *Qualifying Exams in Matrix Analysis and Abstract Algebra.*
- Mathematics Education** **15 Graduate-Level Credit Hours:** Teaching College Mathematics, Qualitative Research in Education I & II, Epistemology of Advanced Mathematical Concepts, Learning Theories in Collegiate Mathematics Education. *Qualifying Exam in Collegiate Mathematics Education.*
- Statistics** **6 Graduate-Level Credit Hours:** Mathematical Statistics, Linear Statistical Analysis.
- Data Science** **5 Coursera Courses:** Introduction to Data Science in Python, Applied Plotting, Charting & Data Representation in Python, Applied Machine Learning in Python, Applied Text Mining in Python, Applied Social Network Analysis in Python.