

Curriculum Vitae

R. Cavender Campbell, Ph. D.

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Education:

- 2011 B.S. Mathematics
Abilene Christian University, Abilene, TX
- 2014 M.S. Mathematics
Thesis Title: *Reconciling Secondary Inservice Teachers Definitions of Problem Solving with those Found in the Research Literature*
University of Texas at Arlington
- 2017 Ph. D. Mathematics (Advisor: James Alvarez)
Dissertation: *Characterizing College Algebra Students' Mathematical Problem Solving*
University of Texas at Arlington

Research Experience:

- 2013-2016 Graduate Research Assistant, University of Texas at Arlington
(AURAS-Arlington Undergraduate Research-Based Achievement in STEM)
- 2015-2017 Graduate Research Assistant, University of Texas at Arlington
(MPSI Development Project)
- 2017-2019 Assessment Committee Data Collection – Ohio Valley University

Teaching Experience:

- 2011-2017 Graduate Teaching Assistant, University of Texas at Arlington
- 2013-2015 Instructor – Emerging Scholars Program Calculus Workshop
Treisman Style Additional Lab Period for AURAS students
- 2015-2016 Instructor – Peer Academic Leader (PAL) Workshop
Training for Undergraduate Teaching Assistants in AURAS Program
- 2016 Precalculus Instructor – University of Texas at Arlington
- 2017-2019 Assistant Professor and Mathematics Director – Ohio Valley University
(Instructor for all Calculus and upper level curriculum, lower level course coordinator, supervised adoption of textbooks for mathematics courses)
- 2019-present Assistant Professor – Texas A&M – Commerce

Awards, Honors, Fellowships:

- 2011 Student Employee Award, Abilene Christian University Math Department
- 2011-2015 GAANN Fellowship, University of Texas at Arlington
- 2017 Graduate Student Teaching Award, University of Texas at Arlington

Grant Experience:

- 2015 Graduate Assistant for “Mathematical Problem Solving Inventory (MPSI) Development Project” National Science Foundation (EAGER) \$270,518
Lead PIs: James A. M. Epperson, Kathryn Rhoads

Additional Training and Certifications:

- 2011-current Texas Teaching Certificate, 8-12 Mathematics
2012-2014 Graduate Statistics Courses including use of SAS software package

Additional Experience:

- 2008-2011 Undergraduate Tutor and Teaching Assistant, Abilene Christian University
2011-2017 Athletics Operations Assistant (volunteer), Dallas Christian School
2015-2016 New Graduate Student Mentor, University of Texas at Arlington
2014-2017 AURAS Peer Academic Leader (PAL) Scheduling Coordinator, UTA
2016-2017 AURAS Peer Academic Leader (PAL) Director, UTA
2017-2019 Mathematics Program Director, Ohio Valley University
Mathematics Seminar and Practicum Coordinator
2017-2019 Athletics Operations Personnel, Ohio Valley University
2017-2019 Assessment Committee Member, Ohio Valley University
(Supervising annual assessment reports and ensure quality delivery of services across the university)
2018-2019 Undergraduate Research Day Judge, Ohio Valley University
2019 Assessment Committee Chair, Ohio Valley University
2019 Scheduling Committee Member, Ohio Valley University
2019 Honors Program Committee Member, Ohio Valley University

Publications and Presentations:

- Campbell, R.C. (2013, August) *Reconciling secondary inservice teachers definitions of problem solving with those found in the research literature.* (unpublished Master's thesis)
- Campbell, R.C. (2015, March) *Definitions of mathematical problem solving from the mathematics education literature,* Presentation at the Texas Section of the Mathematics Association of America, Laredo, TX.
- Campbell, R.C., Epperson, J.A.M., Rhoads, K. (2016, February) *Separating issues in the learning of algebra from mathematical problem solving.* Proceedings of the 19th Annual Conference on Research in Undergraduate Mathematics Education, Pittsburgh, PA: RUME.
- Campbell, R.C. (2016, April) *Mathematical problem solving and success in gateway mathematics courses.* Presentation at Annual Celebration of Excellence by Students, Arlington, TX.
- Campbell, R.C. (2017, January) *Mathematical problem solving practices: A comparison of a student in College Algebra to a student in Calculus.* Presentation at the Joint Mathematics Meetings, Atlanta, GA
- Campbell, R.C., Epperson, J.A.M., Rhoads, K. (2017, January) *The Mathematical Problem Solving Item Development Project.* Poster presented at the Joint Mathematics Meetings, Atlanta, GA

Epperson, J.A.M., Rhoads, K., Campbell, R.C. (2016, July) *Toward developing an instrument to assess mathematical problem solving*. Paper presented at International Congress on Mathematics Education, Hamburg, Germany.

Epperson, J.A.M., Rhoads, K., & Campbell, R.C. (2016, April). *Developing Likert Items to Capture Mathematical Problem Solving*. Poster presented at the Envisioning the Future of Undergraduate STEM Education (EnFUSE): Research and Practice Symposium sponsored by the American Association for the Advancement of Science (AAAS) and the NSF's Division of Undergraduate Education (DUE), Washington, D.C.

Rhoads, K., Epperson, J.A.M., Campbell, R.C. (2016, January) *Mathematical problem solving item (MPSI) development project*. Paper presented at the Joint Mathematics Meetings, Seattle, WA.

Rhoads, K., Epperson, J.A.M., Campbell, R.C. (2017, January) *The Role of Justifying in Entry-Level Undergraduates' Mathematical Problem Solving*. Presentation at the Joint Mathematics Meetings, Atlanta, GA

Alvarez, J. A., Rhoads, K., & Campbell, R. (2019). *Toward Designing and Developing Likert Items to Assess Mathematical Problem Solving*. In *Mathematical Problem Solving: Current Themes, Trends, and Research* (ICME-13 Monographs, pp. 231-260). Springer.

Interests:

Undergraduate Education

Mathematics Education

Mathematical Problem Solving

Calculus Vertical Alignment