

EDUCATION

Doctor of Philosophy (Ph.D.) Educational Policy, Planning, and Leadership. (August, 2019).
The College of William & Mary, Williamsburg, VA.

- Emphasis – Curriculum Leadership
- Cognate – Mathematics Education
- Comprehensive Exams Passed – October 15, 2018.
- Dissertation: *An exploratory study of the use of daily problem-talks as an instructional strategy for developing problem-solving proficiency with fifth-grade students.*

Master of Arts in Education (M.A. Ed.), Secondary Mathematics Education. (2009). The
College of William & Mary, Williamsburg, VA

- Certification: Virginia Post-Graduate Professional (Valid through 2029).

Bachelor of Science (B. S.), Mathematics. (2008). The College of William & Mary,
Williamsburg, VA.

- Double Major in Mathematics and Religious Studies.

ACADEMIC AND PROFESSIONAL EXPERIENCE

Assistant Professor. (2025 - Present). School of Education, Virginia Commonwealth University,
Richmond, VA.

Assistant Professor. (2020-2025). College of Education, Georgia Southern University,
Statesboro, GA.

- Tenure and Promotion Granted on August 1, 2025.
- Courses Taught as the Instructor of Record
 - ELEM 4333 – Elementary Math Methods, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring, 2023, Fall 2023, Spring 2024, Fall 2024
 - ELEM 4632 – Elementary Internship Seminar, Spring 2021
 - ELEM 4733 – Elementary Internship I, Spring 2023
 - ELEM 4799 – Elementary Internship II, Spring 2021, Spring 2022
 - ELEM 7332 – Problem-Solving and Mathematical Representations in the Elementary Classroom, Fall 2020, Fall 2021, Fall 2022, Fall 2023, Summer 2024, Fall 2024
 - ELEM 6440 – MAT Elementary Math Methods, Spring 2021, Spring 2022, Spring 2023, Spring 2024, Spring 2025, Summer 2025
 - EDAT 7132 – Framework for Teaching, Summer 2021

Visiting Assistant Professor. (2019-2020). Department of Mathematics and Statistics, James
Madison University, Harrisonburg, VA.

- Courses Taught as the Instructor of Record
 - Math 107 – Fundamentals of Mathematics I, Fall 2019, Spring 2020
 - Math 207 – Fundamentals of Mathematics III, Fall 2019

- EDUC 631 – Seminar in Educational Inquiry, Spring 2020

Senior Research Consultant. (2019 – Present). CueThink, Remote.

Math Specialist. (2017 – 2018). School of Education, The College of William & Mary, Williamsburg, VA.

- Planned and implemented professional developments.
- Coached Elementary School teachers in rural school divisions.
- Planned and ran monthly meetings for math specialists.
- Planned and facilitated math specialist courses.
- Designed, created, and maintained a new website for the Tidewater Team.

Adjunct Professor. (2016 – 2019). School of Education, The College of William & Mary, Williamsburg, VA.

- Courses Taught as the Instructor of Record
 - Math 516 – Geometry and Measurement for Teachers, Summer 2019
 - CRIN M04 – Mathematics Leadership 4, Spring 2019.
 - CRIN S81 – Technology for Math and Science Teachers, Fall 2018.
 - Math 509 – Probability and Statistics, Summer, 2018.
 - CRIN M02 – Mathematics Leadership 2, Fall 2017.
 - Math 536 – Functions and Algebra for Teachers, Summer 2017.
 - Math 535 – Number and Number Sense, Summer 2017.
 - CRIN M01 – Mathematics Leadership 1, Summer 2017.
 - Educ 439 – Instructional Planning for Secondary Math, Spring, 2017.
 - Educ 439P – Instructional Planning for Secondary Math Practicum, Spring, 2017.
 - Educ 443 – Curriculum/Instruction for Math Methods, Fall 2016.
 - Educ 429 – Curriculum/Instruction for Math Methods Practicum, Fall 2016.

Course Facilitator. (2016 – 2018). School of Education, The College of William & Mary, Williamsburg, VA.

- Courses Taught as a Facilitator
 - CRIN M01 – Mathematics Leadership 1, Fall 2016.
 - CRIN M02 – Mathematics Leadership 2, Fall 2017 (Two sections).
 - CRIN M03 – Mathematics Leadership 3, Spring 2018 (Charles City).
 - Math 537 – Rational Numbers and Proportional Reasoning, Spring, 2017 (Two sections).
 - Math 536 – Functions and Algebra for Teachers, Summer 2016.
 - Math 509 – Probability and Statistics for Teachers (Virginia Beach), Spring 2016.
 - Math 516 – Geometry and Measurement for Teachers (Two sections), Spring 2016.

Math Teacher. (2015 – 2016). Warhill High School, Williamsburg, VA.

- Taught Geometry, AFDA.
- Planned and developed curriculum for the Pathways Project.

Math Teacher. (2011 – 2015). Washington Irving Middle School, Fairfax, VA.

- Taught Math 8, Algebra 1, and Geometry.

- 8th Grade Math Department Chair, 2014 – 2015.
- Member of the Vanguard Technology Committee, 2012 – 2015.
- Coach for the MathCounts team, 2011 – 2015.
- Member of the School's Superintendent's Advisory Committee, 2013 – 2015.
- Math School Improvement Planning Committee chair, 2013-2014.
- Tested and then developed training for a new grading program.
- Designed and implemented a STEAM project.

Content Editor. (Jan. 2014 – Aug. 2014). MathCloud, Fairfax, VA.

- Edited mathematics content for an internet company.
- Created instructional videos.

Interim Administrator. (June 2012 – Aug. 2012). American International School, Ho Chi Minh City, Vietnam.

- Created the school's bell schedule.
- Interviewed and hired new staff members.
- Oriented new staff to living abroad.

Math Teacher. (2009 - 2011). American International School, Ho Chi Minh City, Vietnam.

- Taught Pre-Algebra, Algebra 1 and Geometry.
- Designed, planned and lead a field trip to Hong Kong.
- Planned and presented at a middle school conference for parents.

Student Teacher. (2009). Berkeley Middle School, Williamsburg, VA.

- Math 6 and Math 7.
- Coached and organized intramural soccer.

Substitute Teacher. (2008 – 2009). Williamsburg-James City County Public Schools, Williamsburg, VA.

- Substitute teacher for various grades and subjects K-12.

Graduate Assistant for the Tidewater Team for Mathematics Education. (2008 – 2009). School of Education. The College of William & Mary, Williamsburg, VA. (Half-time position).

Intern. (2010). Alion Science and Technology, Washington, D. C.

- Supported a team working on shock and vibration testing of shipboard equipment.

Intern. (2009). Anteon, Washington, D. C.

- Researched and wrote a military specification for the use of commercial-off-the-shelf products on shipboard computers.

HONORS AND AWARDS

Georgia Southern University Award of Excellence in Faculty Discovery & Innovation, 2025.

Jack Miller Award for Scholarship and Creative Activities, 2024

SCHOLARSHIP

Works in Progress

Rhodes, S., Bryck, R., & Gutierrez de Blume, A. (In Preparation). An exploration of the cognitive, metacognitive, and affective factors that support success in mathematical problem solving.

Rhodes, S., Melville, M., & Winger, A. (In Preparation). Rough draft teaching and evaluation: Leveraging lessons from lesson study and safe spaces to reimagine instructional planning and evaluation.

Rhodes, S., Gutierrez de Blume, A., & Bryck, R. (In Preparation). *The relation between mathematics beliefs, anxiety, & problem solving: The mediation of metacognition and working memory.*

Works Under Review

Rhodes, S., & Smithey, M. (Under Review). The relationship between cognitive and affective factors and the number of teaching moves that preservice teachers make.

Flynn, L., Urena, M., **Rhodes, S.,** Wang, J., Sethuraman, S., Baker, R., Mills, C., & Allen, L. (Under Review). From Clicks to Clusters: Identifying Stable Cluster Profiles Using Students' Actions During Problem Solving.

Li, Y., Steadman, C., **Rhodes, S.,** Wang, J., Sethuraman, S., Baker, R., Mills, C. & Hutt, S., (Under Review). Understanding student problem-solving: Integrating log data and text features for performance prediction.

Nasiar, N., Ocumpaugh, J., Baker, R., Mills, C., **Rhodes, S.,** Sethuraman, S. (Under Review). Emerging SRL profiles in Math Problem Solving: The Essential Role of Monitoring and Translating Strategies in Enhancing Performance and Math Beliefs.

Steadman, C., Hutt, S., Wong, A. Y., Baker, R.S., Sethuraman, S., **Rhodes, S.,** & Mills, C. (Under Review). Strategies for success: Self-regulated learning behaviors in online math education.

Refereed Journal Articles and Proceedings

Rhodes, S., Gutierrez de Blume, A., Bryck, R., Wang, J., Frimpong, P., & Serianni, B. (Accepted – In Press, 2025). Validity evidence for the middle school mathematical beliefs scales (MMBS). *Proceedings of the 46th annual conference of the North American*

Chapter of the International Group for the Psychology of Mathematics Education (PME-NA).

Rhodes, S., Bryck, R., Gutierrez de Blume, A., Lee, A. DePiro, A., Wang, J., & Sethuraman, S. (Accepted – In Press). The impact of web-based application on problem solving proficiency in middle school students. *Proceedings of the 46th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA).*

Winger, A., **Rhodes, S.,** Wang, J., Sethuraman, S., Bryck, R., & Frimpong, P. (Accepted – In Press). Elevating student and teacher voices through co-design. *Proceedings of the 46th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA).*

Rhodes, S., Gutierrez de Blume, A., Bryck, R., & Frimpong, P. (2025). Validation of a shortened measure of students' beliefs about problem solving. *Proceedings of the 52nd conference of the Research Council on Mathematics Learning.*

Rhodes, S., Reigle, K., Della Valle, R., & Gonzalez, J. (2025). Building students' metacognitive toolboxes. *Mathematics Teacher: Learning and Teaching, 118,* 176–185.

Gutiérrez de Blume, A. P., **Rhodes S.,** & Bryck R. L. (2024). Metacognitive Awareness among Middle School Adolescents: Development and Validation of a Shortened Version of the MAI, Jr. *Psychologia. Avances de la Disciplina, 18(2),* 55 – 66.
<https://doi.org/10.21500/19002386.7034>

Gutierrez de Blume, A., **Rhodes, S.,** & Bryck, R. (2024). Improving metacognitive monitoring in math using CueThinkEF+. *Proceedings of the 45th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA).*

Moldavan, A.M., **Rhodes, S.,** Willingham, J.C. & Eisenreich, H. (2024). Notice and wonder: Exploring common speculations from K–8 mathematics. *Mathematics Teacher: Learning and Teaching.* <https://doi.org/10.5951/mtlt.2023.0297>

Rhodes, S., & Melville, M. (2024). Increasing teacher agency through rough draft teaching. *Educational Leadership, 81* (8), 41-45. <https://ascd.org/el/articles/taking-risks-with-rough-draft-teaching>

Hutt, S., DePiro, A., Wang, J., **Rhodes, S.,** Baker, R. S., Hieb, G., Sethuraman, S., Ocumpaugh, J., & Mills, C. (2024, March). Feedback on Feedback: Comparing Classic Natural Language Processing and Generative AI to Evaluate Peer Feedback. *In Proceedings of the 14th Learning Analytics and Knowledge Conference (pp. 55-65).*
<https://doi.org/10.1145/3636555.3636850>

Bryck, R., & **Rhodes, S.** (2024). Improvement in math problem solving is moderated by working memory. *Proceedings of the 51st conference of the Research Council on Mathematics Learning.*

Rhodes, S., Bryck, R., & Gutierrez de Blume, A. (2023). Exploring factors influencing success in mathematical problem solving. *Proceedings of the 44th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)*.

Andres, J.A.M., Baker, R., Hutt, S., Mills, C., Zhang, J., **Rhodes, S.,** & DePiro, A. (2023). Anxiety, achievement, and self-regulated learning in CueThink. *Proceedings of the annual conference of the International Society of the Learning Sciences*. <https://doi.org/>

Rhodes, S., Moldavan, A.M., Smithey, M., & DePiro, A. (2023). 5 key ideas to encourage confident math learners. *Mathematics Teacher: Learning and Teaching*, 116 (1), 8-15. <https://doi.org/10.5951/mtlt.2022.0225>

Rhodes, S. (2021). The impact of problem-solving discussions on heuristic use and metacognition. *Proceedings of the 48th conference of the Research Council on Mathematics Learning*. <https://www.rcml-math.org/assets/Proceedings/RCML%202021%20Proceedings%202221.pdf>

Rhodes, S., & Gareis, C. (2021). Equity by design: Rethinking instructional planning in mathematics. *ASCD Express*, 17 (6). <https://www.ascd.org/blogs/equity-by-design-student-centered-planning-in-mathematics>

Naanou, P., & **Rhodes, S.** (2020). Modeling mathematics through cultural connections. *Mathematics Teacher: Learning and Teaching*, 113 (12), 1034-1038. <https://doi.org/10.5951/mtlt.2020.0164>

Rhodes, S. (2020). Eliciting critical thinking through purposeful questioning. *Mathematics Teacher: Learning and Teaching*, 113 (11), 71-77. <https://doi.org/10.5951/mtlt.2019.0089>

Rhodes, S. (2019). The importance of metacognition in problem-solving. *ASCD Express*, 15 (7). <http://www.ascd.org/ascd-express/vol15/num07/how-did-you-solve-it-metacognition-in-mathematics.aspx>

Rhodes, S., & Kier, M.W. (2018). An integrated project-based methods course: Access points and challenges for preservice science and mathematics teachers. *Innovations in Science Teacher Education*, 3(4). Retrieved from <http://innovations.theaste.org/an-integrated-project-based-methods-course-access-points-and-challenges-for-preservice-science-and-mathematics-teachers/>

Rhodes, S., & Duggan, J. (2018). Cryptic functions: Understanding function identification. *Mathematics Teacher*, 112, 108-113.

Rhodes, S. (2017). Scrum boards get groups organized. *ASCD Express*, 13 (5). <http://www.ascd.org/ascd-express/vol13/1305-rhodes.aspx>

Published Posters and Short Papers

Rhodes, S., & Andrews, D. R. (2025). Introduction: Using arrays for Meaningful Multiplication (Article Introduction). *Mathematics Teacher: Learning and Teaching*, 118 (7), 544-545.

Rhodes, S., Smithey, M., Bryck, R. (2023). Relationships between cognitive and affective factors and number of teaching moves: An exploratory study (Poster). *Proceedings of the 44th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)*.

Rhodes, S. (2023). From the Archives: Mathematical thinking and problem solving. *Mathematics Teacher: Learning and Teaching*, 116 (1), 66-67.

Book Chapters

Rhodes, S., Smithey, M., & Moldavan, A.M. (2024). Developing critical consciousness through critical mathematical literacy and culturally relevant pedagogy in mathematics education. In C. Smith Kondo & K. L. Brkich (Eds.), *A pedagogy of humanization: Preparing elementary teachers for culturally sustaining Classrooms* (1st ed.). Myers Education Press.

Smithey, M., **Rhodes, S., & Moldavan, A.M. (2024).** Building mathematical identities through culturally relevant pedagogy in mathematics education. In C. Smith Kondo & K. L. Brkich (Eds.), *A pedagogy of humanization: Preparing elementary teachers for culturally sustaining Classrooms* (1st ed.). Myers Education Press.

Dissertation

Rhodes, S. (2019) *An exploratory study of the use of daily problem-talks as an instructional strategy for developing problem-solving proficiency with fifth-grade students.* (Doctoral dissertation). [Retrieved from ProQuest Dissertations and Theses database. \(UMI No. 22617029\).](#)

Books Edited

Lempp, J., & Tyler, S. (2024). *Math Workshop: 6 -8. Math Solutions.*

- Content Editor

White Papers

Rhodes, S., Bryck, R., DePiro, A., & Sethuraman, S. (2022). *CueThinkEF+ significantly increases students' problem solving performance* [White paper]. CueThink.

Rhodes, S., Moller, M., & Sethuraman, S. (2022). *Positive shifts in teacher instructional practices with use of CueThink* [White paper]. CueThink.

Rhodes, S. (2020). *Digging deeper: Analyzing student thinking with CueThink* [White paper]. CueThink.

Rhodes, S., DePiro, A., & Moller, M. (2020). *Moving forward with CueThink* [White paper]. CueThink.

Rhodes, S. (2019). *Portrait of a graduate* [White paper}. CueThink.

PRESS AND INTERVIEWS

Metacognition: Thinking about our thinking. Adding it All Up Podcast by NCTM, March 12, 2025. Available at <https://www.youtube.com/watch?v=X3y6mgDCC-0&list=PLR4nwGLogvSE41OfSAz1ucW0REkZI4SCg&index=1>

Building a foundation: Strategies for fostering strong math students. Nick Ortego, Class Dismissed Podcast, April 10, 2023. Available at <https://classdismissedpodcast.com/podcasts/strategies-for-fostering-strong-math-students/>

Can right answers be wrong? Latest clash over ‘White supremacy cultuer’ unfolds in unlikely arena: Math class. Linda Jacobson, The 74 Million, June 21, 2021. Available at <https://www.the74million.org/article/can-right-answers-be-wrong-latest-clash-over-white-supremacy-culture-unfolds-in-unlikely-arena-math-class/>

4 ways to build student-centered math lessons. Hoa P. Nguyen, Edutopia, July 8, 2021. Available at <https://www.edutopia.org/article/4-ways-build-student-centered-math-lessons>

EXTERNAL FUNDED GRANTS

Funded Grants Authored/Co-Authored (Total funded since 2020: ~\$6.08 million):

Sethuraman, S., **Rhodes, S.**, Bryck, R., Baker, R., & Mills, C. (2023). *Fostering problem solving skills through adaptive EF Supports and scaffolds*. (Funded). EF+Math, \$1,702,909/2 years. Co-Principal Investigator.

Mills, C. (PI), **Rhodes, S. (PI)**, Baker, R. (PI), Sethuraman, S. (Co-PI), Allen, L (Co-PI). & Gutierrez de Blume, A. (Co-PI). (2022). *Collaborative research - CueLearn: Enhancing social problem solving through intelligent support*. (Funded). NSF, \$3,000,000/4 years. Principal Investigator.

Sethuraman, S., **Rhodes, S.**, & Bryck, R. (2020). *CueThinkEF+: Scaffolding executive function via metacognition and problem-solving*. (Funded). EF+Math, \$1,350,000/3 years. Co-Principal Investigator.

Cornett, A., Smithey, M., **Rhodes, S.**, Smith, C., Brkich, K., & Cannon-Rech, D. (2020). *Affordable materials grant*. (Funded). Affordable Learning Georgia, \$25,500/1 year. Co-Principal Investigator.

Grants Participated In:

Gareis, C., & McMillan, J. (2020). *MAP growth validation study*. (Funded). NWEA, \$73,433/3 months. Lead subject matter expert for the mathematics team.

Sethuraman, S. (2020). Designing for learner variability within a mathematical problem solving application. (Funded). Digital Promise, \$50,000/1 year. Senior personnel/researcher.

Sethuraman, S. (2017). An embedded and in-context professional learning platform for math problem-solving instruction. (Funded). National Science Foundation, \$1.287m/3 years. Senior personnel/researcher. NSF Award Number: 1660216

Grant, L., & Farmer, T. (2017). *Southern Virginia elementary mathematics coalition to enhance student achievement through teacher professional development*. (Funded). Math Science Partnership, \$772,465/2 years. Graduate assistant (4 months); Mathematics specialist (20 months) on years 2 and 3 of grant.

EXTERNAL UNFUNDED GRANTS

Unfunded Grants Authored/Co-Authored:

Sethuraman, S., Baker, R. (Co-PI), Mills, C. (Co-PI), **Rhodes, S.** (Co-PI) & Allen, L. (Co-PI). (2023). *AI-Based metacognitive instruction support*. (Unfunded). Schmidt Futures, \$2,500,000/1 year (Grant had the potential to be renewed for up to 4 years). Co-PI

Sethuraman, S., Allen, L., & **Rhodes, S.** (2023). *CueCreativity: An Innovative Tool For Measuring Creative Problem Solving*. (Unfunded). Schmidt Futures, \$250,000, 1 year. Co-PI

Sethuraman, S., Baker, R., Mills, C., **Rhodes, S.** (2022). *Social problem solving with intelligent support*. (Unfunded), Schmidt Futures, \$12,500,000/5 years. Co-PI

Sethuraman, S., Baker, R., Mills, C., & **Rhodes, S.** (2022). *CueProbe: A system of configurable probes for in-the-moment data on executive function and metacognition*. (Unfunded), Schmidt Futures, \$249,995, 1 year. Co-PI

Sethuraman, S., & **Rhodes, S.** (2020). *Developing a collaborative math problem-solving platform with rich data analytics to mitigate the impact of COVID-19 on schools*. (Unfunded). NSF, \$325,000 /1 year. Research and learning design consultant.

Farmer, T., Hamm, J., Bachman, H., Johnson, L., Krause, G.,..., **Rhodes, S.** (2019). *National research center for success in rural schools*. (Unfunded). IES, \$10,000,000/5 years. Post-doctoral researcher.

INTERNAL FUNDING AWARDS

Total funded since 2020: \$14,240

Rhodes, S. (2025). Increasing metacognition in mathematical problem solving through an AI-based agent. (Funded). Georgia Southern University, \$2,400/1 year.

Smitley M., & **Rhodes, S.** (2021). *An exploratory study of the factors influencing teaching moves in preservice teachers*. (Funded). Georgia Southern University, \$10,000/1 year.

Rhodes, S., & Smithey, M. (2020). *Undergraduate Research Assistant*. (Funded). Georgia Southern University, \$1,840/1 year.

INTERNAL UNFUNDED PROPOSALS

Rhodes, S., & Gutierrez de Blume, A. (Unfunded). *The Development of Grant Proposals for an AI-based Metacognitive Agent in Mathematical Problem-Solving Environments*. Georgia Southern Impact Accelerator Grant, \$23,840/1 year. Principal Investigator.

Smithey M., & **Rhodes, S.** (2020). *An exploratory study of the factors influencing teaching moves in preservice teachers*. (Unfunded). Georgia Southern University, \$9,999.50/1 year.

REFEREED PRESENTATIONS

Rhodes, S., Gutierrez de Blume, A., Wang, J., & Bryck, R., (Accepted – 2025). *Validation of an equity-centered measure of student beliefs in mathematics*. Will be presented at the 46th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA).

Rhodes, S., Bryck, R., Gutierrez de Blume, A., Lee, A. DePiro, A., Wang, J., & Sethuraman, S. (Accepted – 2025). *The impact of web-based application on problem solving proficiency in middle school students*. Will be presented at the 46th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA).

Winger, A., **Rhodes, S., Wang, J., Sethuraman, S., Bryck, R., & Frimpong, P.** (Accepted – 2025). *Elevating student and teacher voices through co-design*. Will be presented at the 46th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA).

Reigle, K., **Rhodes, S., Della Valle, R., & Gonzalez, J.** (Accepted – October, 2025). *Building students' metacognitive toolboxes*. Will be presented at the annual conference of the National Council of Supervisors of Mathematics, Atlanta, Georgia.

Rhodes, S., Reilly, K., Tiruchelvam, V., & Trinidad, J. (Accepted – October, 2025). *Teaching mathematics with AI*. Will be presented at the annual conference of the National Council of Teachers of Mathematics, Atlanta, Georgia.

Winger, A., Melville, M., & **Rhodes, S.** (Accepted – October, 2025). *Reimagining schools towards safe and equitable spaces for mathematics teachers and students*. Will be presented at the annual conference of the National Council of Teachers of Mathematics, Atlanta, Georgia.

Reigle, K., **Rhodes, S., Della Valle, R., & Gonzalez, J.** (Accepted – October, 2025). *Building students' metacognitive toolboxes*. Will be presented at the annual conference of the National Council of Teachers of Mathematics, Atlanta, Georgia.

Melville, M., **Rhodes, S.**, & Winger, A. (July, 2025). *Transforming schools through rough draft teaching and evaluation*. Presented at the ISTE Live + ASCD Annual Conference 25, San Antonio, Texas.

Rhodes, S., Gutierrez de Blume, A., & Bryck, R. (April, 2025). *The relation between mathematics beliefs, anxiety, & problem solving: The mediation of metacognition and working memory*. Presented at the annual conference of the American Educational Research Association (AERA), Denver, Colorado.

Rhodes, S., Gutierrez de Blume, A., Bryck, R., & Frimpong, P. (March, 2025). *Validation of a shortened measure of students' beliefs about problem solving*. Presented at the annual conference of the Research Council on Mathematics Learning (RCML), College Station, Texas.

Winger, A., **Rhodes, S.**, Wang, J., Sethuraman, S., Bryck, R., & Frimpong, P. (March, 2025). *Elevating student and teacher voices through co-design*. Presented at the annual conference of the Research Council on Mathematics Learning (RCML), College Station, Texas.

Rhodes, S., & Winger, A. (February, 2025). *It's easier to think about when it's about me: Metacognition and culturally relevant math tasks*. Presented at the spring conference of the National Council of Teachers of Mathematics, Kansas City, Missouri.

Winger, A., & **Rhodes, S.** (February, 2025). *A bolder vision forward: Eight ideas for creating authentically safe math spaces*. Presented at the spring conference of the National Council of Teachers of Mathematics, Kansas City, Missouri.

Gutierrez de Blume, A., **Rhodes, S.**, & Bryck, R. (November, 2024). *Improving metacognitive monitoring in math using CueThinkEF+*. Presented at the 45th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA).

Rhodes, S., & Winger, A. (October, 2024). *Building metacognition through culturally relevant tasks*. Presented at the annual conference of the Georgia Council of Teachers of Mathematics, Eatonton, Georgia.

Winger, A., & **Rhodes, S.** (October, 2024). *Creating authentically safe math spaces*. Presented at the annual conference of the Georgia Council of Teachers of Mathematics, Eatonton, Georgia.

Gutierrez de Blume, A., **Rhodes, S.**, & Bryck, R. (August, 2024). *Metacognitive awareness among middle school adolescents: Development and validation of an abbreviated version of the MAI, Jr.* Presented at the International Conference on Learning and Metacognition: From research to practice, San José, Costa Rica.

Bryck, R. L. & **Rhodes, S.** (July 2024). *Working Memory, the missing piece? Exploring the moderating effect on math gains via a math problem solving app*. Poster presentation at the International Mind, Brain and Education Society (IMBES) bi-annual meeting, Leuven, Belgium.

Rhodes, S., & Bryck, R. (2024). *The impact of an online application on students' problem solving.* Presented at the annual conference of the Research Council on Mathematics Learning (RCML), Columbia, South Carolina.

Bryck, R., & **Rhodes, S. (2024).** *Improvement in math problem solving are moderated by working memory.* Presented at the annual conference of the Research Council on Mathematics Learning (RCML), Columbia, South Carolina.

Rhodes, S., Bryck, R., Gutierrez de Blume, A. (2023). *Exploring factors influencing success in mathematical problem solving.* Presented at the 44th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Reno, NV.

Rhodes, S., Smithey, M., Bryck, R. (2023). *Relationships between cognitive and affective factors and number of teaching moves: An exploratory study (Poster).* Presented at the 44th annual conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Reno, NV.

Rhodes, S., & Smithey, M. (2023). *An exploratory study on the relationships between beliefs, anxieties, and talk moves in preservice teachers.* Presented at the annual conference of the Association of Mathematics Teacher Educators (AMTE), New Orleans, LA.

Rhodes, S., Bryck, R., & DePiro, A. (2022). *Unlocking brilliance: How executive functions support success in problem solving.* Presented at the annual conference of the National Council of Teachers of Mathematics (NCTM), Los Angeles, CA.

DePiro, A., **Rhodes, S., & Winger, A. (2022).** *Empowering students through creative problem-solving opportunities.* Presented at the annual conference of the National Council of Teachers of Mathematics (NCTM), Los Angeles, CA.

Naanou, P., & **Rhodes, S. (2022).** *Creating mirrors and opening windows through problem-solving.* Accepted but not presented at the annual conference of the National Council of Teachers of Mathematics (NCTM), Los Angeles, CA.

Rhodes, S., Bryck, R., Gutierrez de Blume, A., & DePiro, A. (2022). *An exploratory study of factors influencing mathematics problem solving.* Presented at the annual conference of the Research Council on Mathematics Learning (RCML), Grapevine, TX.

DePiro, A., Winger, A., & **Rhodes, S. (2022).** *A framework for equity centered co-design .* Presented at the annual conference of the Research Council on Mathematics Learning (RCML), Grapevine, TX.

Smithey, M., **Rhodes, S., & Akers, L. (2022).** *An exploration of the relationship between mathematics anxiety and responsive teaching.* Presented at the annual conference of the SoTL Commons Conference, Savannah, GA.

Rhodes, S., Smithey, M., & Akers, L. (2022). *Exploring factors that influence teaching moves and rationales of preservice elementary school teachers of mathematics (Poster session).*

Presented at the annual conference of the Association of Mathematics Teacher Educators (AMTE), Las Vegas, NV.

Rhodes, S., & Taylor, C. (2022). *Centering social justice through problem solving*. Presented at the annual conference of the Association of Mathematics Teacher Educators (AMTE), Las Vegas, NV.

Rhodes, S., & Eisenreich, H. (2022). *But what's the whole?*. Presented at the annual conference of the Georgia Council of Teachers of Mathematics, Virtual.

Rhodes, S., Smithey, M., Akers, L., & Curry, C. (2022). *Supporting students in problem solving*. (Accepted). Presented at the annual conference of the Georgia Council of Teachers of Mathematics, Virtual.

Eisenreich, H., **Rhodes, S., & Lorden, A. (2021).** *Fraction slam: A dozen activities to build understandings of fractions*. Presented at the annual conference of the Georgia Council of Teachers of Mathematics, Virtual.

Naanou, P., & **Rhodes, S. (2021).** *Creating mirrors and opening windows through problem-solving*. Presentation accepted by not presented (due to COVID-19) at the National Council of Teachers of Mathematics (NCTM), Atlanta, GA.

Winger, A., **Rhodes, S., & DePiro, A. (2021).** *Celebrating student thinking: How problem-solving can empower students*. Presentation accepted by not presented (due to COVID-19) at the National Council of Teachers of Mathematics (NCTM), Atlanta, GA.

Rhodes, S. (2021). *The impact of problem-solving discussions on heuristic use and metacognition*. Presented at the annual conference of the Research Council on Mathematics Learning (RCML), Virtual.

DePiro, A., & **Rhodes, S. (2020).** *Revitalizing teachers through evocative coaching*. Presentation accepted by not presented (due to COVID-19) at the National Council of Teachers of Mathematics (NCTM), Chicago, IL.

Rhodes, S., Tschannen-Moran, M., & Crisher, A. (2019, December). *Revitalizing teachers through evocative coaching*. Presented at the annual conference of the Virginia Association for Supervision and Curriculum Development (VASCD), Williamsburg, VA.

Rhodes, S., & Crisher, A. (2019, October). *Creating equitable problem-solving instruction through discourse*. Presented at the National Council of Teachers of Mathematics (NCTM) regional conference, Nashville, TN.

Rhodes, S., Duggan, J., & Mason, M. (2019, April). *Leveraging van Hiele: Personalizing Geometric activities to empower student learning*. Presented at the annual conference of the National Council of Teachers of Mathematics (NCTM), San Diego, CA.

Duggan, J., & **Rhodes, S. (2019, April).** *Beautiful discoveries: Teaching Algebraic concepts through historical inquiry*. Presented at the annual conference of the National Council of Teachers of Mathematics (NCTM), San Diego, CA.

Rhodes, S., & Crisher, A. (2018, November). *Intentional problem solving: From implicit inequities to explicit questioning*. Presented at the annual conference of the Virginia Association for Supervision and Curriculum Development (VASCD), Williamsburg, VA.

Mason, M., **Rhodes, S., & Duggan, J.** (2018, April). *A baker's dozen: Creative activities for elementary educators*. Presented at the annual conference of the National Council of Teachers of Mathematics (NCTM), Washington, DC.

Rhodes, S. (2018, March). *Teaching sub-questions: The role student questions play in problem solving*. Presented at the annual conference of the Virginia Council Teachers of Mathematics (VCTM), Radford, VA.

Rhodes, S., Duggan, J., & Carpenter, D. (2017, June). *Design thinking for creative lesson planning*. Presented at the Innovations Lab conference, Williamsburg, VA.

Rhodes, S., & Mason, M. (2017, April). *Twelve creative activities for the middle school math teacher*. Co-wrote the presentation and colleague presented at the annual conference of the National Council of Teachers of Mathematics (NCTM), San Antonio, TX.

Mason, M., & **Rhodes, S.** (2017, April). *Hands on geometry for deeper understanding for all learners in grades 3-5*. Co-wrote the presentation and colleague presented at the annual conference of the National Council of Teachers of Mathematics (NCTM), San Antonio, TX.

INVITED PRESENTATIONS

Hutt, S., & **Rhodes, S.** (July, 2025). *Smart tech, smarter teaching: Critical considerations for using AI in the classroom*. Presented at the ISTE Live + ASCD Annual Conference 25, San Antonio, Texas.

Rhodes, S., & Robichaux-Davis, R. (February, 2024). *Writing for MTLT*. Will be presented at the spring conference of the National Council of Teachers of Mathematics, Kansas City, Missouri.

Rhodes, S. (October, 2024). *Writing for MTLT*. Presented at the annual conference of the Georgia Council of Teachers of Mathematics, Eatonton, Georgia.

Rhodes, S. & Gutierrez de Blume, A. (2023). Exploring factors influencing success in mathematical problem solving. Presented at the Mathematics Colloquium at Georgia Southern University, Statesboro, VA.

Rhodes, S., & Taylor, C. (2023, October). *Planning integrated projects in the elementary school classroom*. Presented at the STEAM day conferences for Savannah-Chatham County Public Schools, Savannah, GA.

Rhodes, S., & Taylor, C. (2023, October). *Planning integrated projects in the secondary school classroom*. Presented at the STEAM day conferences for Savannah-Chatham County Public Schools, Savannah, GA.

Delgado, L., An, T., Nguyen, A., Casler-Failing, S., Eisenreich, H., Maher, E. S., Massey, C. C., Smith, J., Smithey, M., **Rhodes, S.**, Chamblee, G. (2022). *Number Sense: Georgia Southern Pre-service Teachers' Knowledge*. Department of Mathematical Sciences Faculty Presentations. Presentation 764.
<https://digitalcommons.georgiasouthern.edu/math-sci-facpres/764>

Rhodes, S. (2020, November). *The impact of metacognition, executive function, and heuristics when problem solving*. Presentation at the Mathematics Colloquium at James Madison University, Harrisonburg, VA.

Rhodes, S. (2018, March). *Creating sustainable growth in rural mathematics classrooms*. Presentation at The Future of Rural Schools and Communities Summit at The College of William and Mary, Williamsburg, VA.

Rhodes, S., & Mason, M. (2017, December). *Developing understandings of rational numbers*. Keynote presentation at the Rational Numbers Bootcamp for Upper Elementary and Secondary Math Teachers at The College of William and Mary Peninsula Center, Newport News, VA.

Jones, S., & **Rhodes, S.** (2017, December). *Number talks: Building number sense*. Breakout presentation at the Rational Numbers Bootcamp for Upper Elementary and Secondary Math Teachers at The College of William and Mary Peninsula Center, Newport News, VA.

Rhodes, S., & Mason, M. (2017, November). *Teaching problem solving: Looking beyond the answers*. Half day workshop as part of a day-long training put on by SURN at The College of William and Mary, Williamsburg, VA.

Rhodes, S. (2015, March). *Teaching math using project-based learning*. One hour presentation on 21st century instructional strategies at a math supervisors meetings, Williamsburg, VA.

CONFERENCE PRESENTATIONS (Non-Refereed)

Hutt, S., **Rhodes, S.**, Sethuraman, S., & Wang, J. (2024). *Building equitable tools for student problem solving and executive function using AI*. Presented at the annual conference for the International Society for Technology in Education, Denver, CO.

Rhodes, S. (2018, September). *Integrating mathematical discourse and practice in middle school classrooms*. Presented at the William and Mary Math Day conference, Williamsburg, VA.

Rhodes, S., & Crisher, A. (2018, August). *The struggle of problem solving*. Presented at the William and Mary Summer Mathematics Institute, Williamsburg, VA.

Rhodes, S. (2018, August). *The struggle of problem solving*. Presented at the William and Mary Summer Mathematics Institute, Williamsburg, VA.

Joseph, J., & **Rhodes, S.** (2017, October). *Asking the right questions: Building the foundation for problem solving*. Presented at the William and Mary Math Day conference, Williamsburg, VA.

Rhodes, S., & Archbald, A. (2016, October). *Beating math trauma*. Presented at the William and Mary Math Day conference, Williamsburg, VA.

Rhodes, S. (2015, November). *Teaching math in the 21st century*. Presented at the William and Mary Math Day conference, Williamsburg, VA.

Rhodes, S. (2015, February). *Teaching math in the 21st century*. Presented at the Fairfax County Schools (FCPS) Advanced Academics Conference, Falls Church, VA.

PROFESSIONAL DEVELOPMENT PRESENTATIONS

Rhodes, S. (2025, March). *Facilitating mathematical discourse*. Four, 85-minute professional development sessions. Columbus, OH.

Rhodes, S. (2024, December). *Enhancing problem solving through metacognition and collaboration*. A full day of model lesson demonstrations. Hillside, NJ.

Rhodes, S. (2024, December). *An introduction to the CueThink platform*. A full day of model lesson demonstrations. Matthews, VA.

Rhodes, S., & Heaney, K. (2024, December). *Rich problem solving: Integrating CueThink with building thinking classrooms*. A half-day professional development followed up by a full day of model lesson demonstrations. Gloucester, VA.

Rhodes, S. (2024, February). *Effectively integrating CueThink into problem solving instruction*. One full day of model lesson demonstrations. Hillside, NJ.

Rhodes, S., & Wang, J. (2023, September). *Teaching through problem solving with CueThink*. 1 hour virtual professional development followed up by a full day of model lesson demonstrations. Hillside, NJ.

Rhodes, S., & Moller, M. (2022, August). *Beyond the Algorithm*. Full day professional development with teachers. Valdosta County, GA.

Rhodes, S. (2020, November). *Defining our aspirations*. 1.5 hour professional development with teachers and administrators. Page County, VA.

Rhodes, S. (2020, August). *Defining our aspirations*. 1.25 hour professional development with school administrators and district leaders. Page County, VA.

Rhodes, S., & DePiro, A. (2020, March). *Conceptually Understanding Fraction Operations*. Full day professional development with math teachers and coaches, VA Beach, VA.

Rhodes, S., & DePiro, A. (2020, March). *Conceptually Understanding Fractions*. Full day professional development with math teachers and coaches, VA Beach, VA.

- Spillert, S., Wang, J., **Rhodes, S.**, & Gardner, D. (2019, October). *Integrating CueThink into the classroom*. Half-day professional development with Fairfax County Public Schools, Fairfax, VA.
- Spillert, S., Wang, J., **Rhodes, S.**, & Gardner, D. (2019, September). *CueThink: The story of problem-solving*. Half-day professional development with Fairfax County Public Schools, Fairfax, VA.
- Spillert, S., Wang, J., **Rhodes, S.**, & Gardner, D. (2019, September). *Introducing CueThink: Bringing problem-solving to life*. Full-day professional development with Fairfax County Public Schools, Fairfax, VA.
- Rhodes, S.** (2018, June). *Problem solving with cuethink*. One-hour professional development with math teachers at Lawson Marriot Elementary School, St. Stephens Church, VA.
- Rhodes, S.** (2018, June). *Restructuring the math block around number sense*. One-hour professional development with math teachers at Lawson Marriot Elementary School, St. Stephens Church, VA.
- Rhodes, S.** (2018, March). *Building the foundation for success*. Full day workshop working with grade level bands for 40 minutes each at Charles City Elementary School, Charles City County, VA.
- Rhodes, S.** (2018, February). *Understanding the implications of CAT testing*. One-hour professional development with math teachers at Lawson Marriot Elementary School, St. Stephens Church, VA.
- Rhodes, S.**, & Merritt, D. (2017, December). *Taking the next step: Starting the math classroom redesign*. One-hour school-wide professional development at Charles City Elementary School, Charles City County, VA.
- Rhodes, S.** (2017, December). *Developing number sense through daily routines*. One-hour school-wide professional development with classroom teachers at Lawson Marriot Elementary School, St. Stephens Church, VA.
- Rhodes, S.**, & Merritt, D. (2017, December). *Getting the most out of math groups*. One-hour school-wide professional development at Charles City Elementary School, Charles City County, VA.
- Rhodes, S.**, & Merritt, D. (2017, November). *Re-designing mathematics classrooms*. Full day workshop working with grade level bands for 40 minutes each at Charles City Elementary School, Charles City County, VA.
- Rhodes, S.** (2017, October). *Rethinking homework*. 45-minute professional development with classroom teachers at Lawson Marriot Elementary School, St. Stephens Church, VA.

- Rhodes, S.** (2017, August). *Promoting classroom inquiry through dynamic software*. Two-hour professional development with classroom teachers at Lawson Marriot Elementary School, St. Stephens Church, VA.
- Rhodes, S., & Duggan, J.** (2017, August). *Assessment for Learning*. Full day professional development broken into three different grade band sessions with classroom teachers in King and Queen County, VA.
- Rhodes, S., & Duggan, J.** (2017, August). *Moving beyond procedural understandings*. Two-hour professional development with classroom teachers at Charles City Elementary School, Charles City County, VA.
- Rhodes, S.** (2017, June). *Effectively implementing project-based learning*. Half-day workshop working with a small group of teachers and administrators at Princess Anne High School, Virginia Beach, VA.
- Rhodes, S.** (2017, April). *Developing conceptual understandings of fractions*. Two hour professional development working with classroom teachers on how to teach fractions using the CRA model at Lawson Marriot Elementary School, St. Stephens Church, VA.
- Rhodes, S.** (2017, April). *Analyzing and responding to small picture trends in student data*. Full day workshop working with grade level bands for one hour each at Charles City Elementary School, Charles City County, VA.
- Rhodes, S.** (2017, March). *Analyzing big picture trends in student data*. Full day workshop working with grade level bands for one hour each at Charles City Elementary School, Charles City County, VA.
- Rhodes, S.** (2017, March). *Planning for pre-teaching*. Full day workshop working with grade level bands for one hour each on creating pre-assessments and designing a pre-teaching plan to be implemented at Lawson Marriot Elementary School, St. Stephens Church, VA.
- Rhodes, S.** (2017, March). *Reversing remediation*. One and a half hour workshop on using pre-assessment data to pre-teach struggling students at Lawson Marriot Elementary School, St. Stephens Church, VA.
- Rhodes, S.** (2015, November). *Teaching math using project-based learning*. One hour presentation on 21st century instructional strategies with a focus on project based learning. Lawson Marriot Elementary School, St. Stephens Church, VA.

SERVICE

Service to the Field

- Associate Editor for the Mathematics Teacher: Learning and Teaching Journal – For the Love of Mathematics (2024 – Present)
- Department Editor for the Mathematics Teacher: Learning and Teaching Journal – Ear to the Ground (2021 – 2024)
- Reviewed articles for the following journals:
 - British Journal of Educational Technology (2025)

- Investigations in Mathematics Learning (2024, 2025)
- Journal of Experimental Education (2023, 2024, 2025)
- Journal for Research in Mathematics Education (2022, 2024)
- Scholarship of Teaching and Learning (2021)
- Mathematics Teacher Learning and Teaching (2020, 2021, 2022)
- Mathematics Teacher Educator (2020)
- Mathematics Teacher (2018, 2019)
- Reviewed grant proposals for NSF (2022)
- Reviewed proposals for the following conferences:
 - PMENA (2020, 2024, 2025)
 - AMTE (2019, 2020, 2022)
 - RCML (2024)
 - NCTM (2024)

Service to the University

Georgia Southern University

- Served on various college committees including:
 - STEM Ph.D. Planning Committee (2024 – Present).
 - Elected and served as a member of the Diversity, Equity, and Inclusion Committee (2021 – 2024)
 - Faculty Advisory Committee Alternate (2023-2024)
 - Search Committee Member (2023-2024) for One Search
 - Search Committee Member (Summer 2023) for Two Searches
 - Search Committee Member (2022-2023) for One Search
 - Search Committee Co-Chair (2021-2022) for Two Searches
 - Elementary and Special Education Department Strategic Plan Committee (2020-2021)
 - BSED Redesign Professional Knowledge Committee
 - Search Committee Member (2020-2021) for Three Searches
- Served on Georgia State Math Task Force (2020-2021)
- Supported course revisions
 - ELEM 7330 (Fall, 2021)
 - Math 3135 (Summer, 2022)

James Madison University

- Served on various committees including:
 - Algebra add-on review committee
 - Math education committee

Service to the Community

- Provided 2 days of consultation to Mathews Middle School, Mathews, VA (2023).
- Supported teaching through problem solving at Hillside Public Schools, Hillside, NJ (20 hours)
- Supported professional development activities at Ben Franklin Elementary School, Corono, CA (2 hours).
- Planned and ran the Reggie Dawson Math Tournament for Bulloch County Public Schools. (2022)

- Provided 20 hours of support to Page County Public Schools in developing mathematics specific mission and vision statements and in training teachers and administrators. (2020-2021)
- Provided 1 hour of consultation help to Thomas Hunter Middle School in Mathews, VA (March, 2021)
- Organized and lead monthly collaborative meetings between William and Mary and 20 local school districts to facilitate mutual support and communication (2015-2019).
- Provided 8 hours of professional development to a high school in VA Beach (2017)
- Provided 1 day of professional development for Columbus City Schools (2025).
- Provided 3 days of professional development for Hillside Public Schools (2024).
- Helped plan and conduct a professional development for Valdosta Public Schools (2022).
- Supported teachers at Hodge Elementary School on implementing Number Talks (2021 – 2022)
- Consulted with CueThink to engage in research and to improve product and training (2019 - Present)
- Organized and ran a professional development on fractions for teachers (Spring, 2020).
- Organized and ran two summer math institutes (August, 2018-2019).
- Provided two days of professional development on problem-solving to a district in VA.
- Consulted with a school district to perform a K-12 math instructional audit of their school system (Fall, 2018).
- Consulted with a district to coach and support their high school math teachers (Spring, 2018).
- Organized and ran three annual math conferences at William and Mary (2016 – 2018) to support the dissemination of research-based practices and to provide presentations opportunities to math teachers, coaches, and administrators.

NOTABLE TRAININGS

- VM²ED Conference on Validity
- Science of Reading (30 hours)