

ADAM EDWARD SMITH | CURRICULUM VITAE

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CURRENT APPOINTMENT

Designing for Equity Manager, EF+Math Program (www.efmathprogram.org)

AREAS OF SPECIALIZATION

- Adult Education
 - Mathematics Education
 - Math Content Knowledge of Teachers
 - Self-Efficacy
 - Self-Efficacy in Mathematics
 - Leadership in Education
 - Teacher Preparation in Mathematics
 - Critical Pedagogy
 - Critical Race Theory
 - Equity and Education
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EDUCATION

Ph.D., Sciences Education (Mathematics emphasis) **2013-present**

Minor, Educational Research

University of Southern Mississippi (Hattiesburg, MS)

Expected Graduation: December 2020

Dissertation Title (in progress): Examining the Validity and Reliability of a Math Self-Efficacy Scale for African American Students

M.Ed., Secondary Education (Mathematics Emphasis) **2010-2012**

Vanderbilt University (Nashville, TN)

B.S., Mathematics **2005-2010**

B.A., Music (Vocal Performance)

Tougaloo College (Tougaloo, MS)

Magna Cum Laude

PROFESSIONAL EXPERIENCE

Designing for Equity Manager **2021-present**

EF+Math Program

- Advance organization-wide equity initiatives
- Systematically evaluate equity commitments within and across all organizational dimensions
- Support stakeholder groups in equity knowledge and practice
- Manage Equity Research Advisory Board

Mathematics Curriculum Coordinator**2017-2021***Ferguson-Florissant School District*

- Led district-wide implementation of Eureka Math curriculum (grades K-5)
- Developed district curricular materials and updated as needed.
- Delivered professional development to teachers and administrators regarding teaching and learning of math.
- Designed and oversaw frameworks for planning and delivering high quality math instruction.
- Developed and oversaw systems and protocols that center equity and opportunity for all students to access rigorous teaching and learning opportunities.
- Modeled high quality and standards aligned lessons.
- Observed and offered feedback for teachers and leaders of math learning.
- Assisted in deepening of teachers' math content knowledge.

Visiting Scholar**Summer 2019***Brown University Summer @ Brown Program*

- Designed and taught a 2-week course entitled "Million Dollar Mathematics" for high school students in pursuit of careers and studies in mathematics and mathematics related disciplines.
- Maintained an engaging and rigorous learning environment for international students.

Visiting Scholar**Summer 2018***Brown University Summer @ Brown Program*

- Designed and taught a 2-week course entitled "The Mathematical Proof: Origins, Importance, and Construction" for high school students in pursuit of careers and studies in mathematics and mathematics related disciplines.
- Maintained an engaging and rigorous learning environment for international students.

Adjunct Instructor of Mathematics**2018-present***Harris-Stowe State University*

- Developed learning goals, establish learning sequence, and select resources for "Introduction to Statistics".
- Developed instructional activities and assessments, and facilitate opportunities for learning and mastery of content.

Assistant Professor of Mathematics**2015-2017***Tougaloo College*

- Taught courses in first-year and second-year mathematics and mathematics education.
- Developed curriculum and assessment materials. Prepared students for careers in K-12 education.

Instructor of Mathematics**2013-2015***Tougaloo College*

- Taught courses in first-year and second-year mathematics and mathematics education.
- Developed curriculum and assessment materials. Prepared students for careers in K-12 education.

Math Teacher **2012-2013**

Jackson Public School District

- Taught courses in Algebra I and Geometry.
- Prepared students for state-wide Algebra I exam, as part of the Subject Area Testing Program (SATP).
- Earned highest test scores in Algebra I at Lanier High School, AY 2012-2013.

Adjunct Instructor of Mathematics **2012-2013**

Tougaloo College

- Taught courses in first-year and second-year mathematics and mathematics education.
- Developed curriculum and assessment materials. Prepared students for careers in K-12 education.

Math Specialist **Spring 2012**

Meharry Medical College

- Tutored post-baccalaureate students in preparation for the Dental Admissions Test (DAT).
- Provided sample questions and model strategies for approaching test items commonly seen in the Quantitative Reasoning portion of the Test.

Math Student Teacher **Spring 2012**

Metro Nashville Public Schools

- Taught Precalculus at MLK Academic Magnet School and 7th Grade Math at Oliver Middle School.
- Prepared 7th grade students for the Tennessee Comprehensive Assessment Program (TCAP)

Math Specialist **2009-2014**

Summer Science Program, Tougaloo College

- Developed course curricula and assessments for students (of high school senior and first-year collegiate age) of varying mathematical aptitude.
- Developed interdisciplinary instructional activities to connect mathematics to biology, chemistry, and physics.

PRESENTATIONS

Smith, A. E. (2021, April 21 - May 1). *Mathematical Knowledge for Teaching (MKT): Implications for Practice, Beliefs, and Success* [Speaker Roundtable]. NCTM Virtual 2021 Annual Meeting.

Smith, A. E. (2021, April 8 -12). *Toward a Redefining of Self-Efficacy in Mathematics That Attends to the Needs of African American Students* [Roundtable Session]. AERA Virtual Annual Meeting <https://tinyurl.com/y3goqny7>.

- Smith, A. E.** (2020, Apr 17 - 21). *Examining the Influence of an Emporium Model Approach on African American Students' Math Self-Efficacy Beliefs* [Paper Session]. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/qqfcvxw> (Conference Canceled).
- Lembke, E. S., Powell, S. R., Ketterlin-Geller, L. R. & **Smith, A. E.** (2020, Apr 17 - 21). *Improving Teachers' Mathematics Instruction for Middle School Students at Risk/With Disabilities: Collaboration to Support Algebraic Readiness* [Roundtable Session]. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/vqtp78o> (Conference Canceled).
- Smith, A. E.** (2020, Apr 17 - 21). *Examining the Influence of an Emporium Model Approach on African American Students' Math Self-Efficacy Beliefs* [Paper Session]. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/qqfcvxw> (Conference Canceled)
- Smith, A.** (2020, February). *Connecting Critical Race Theory to Empowering Practice for Math Learners of Color*. Missouri Department of Elementary and Secondary Education (DESE) 2020 Interface Conference, Osage Beach, MO.
- Smith, A.**, Besse, T. (2020, February). *The Power of Understanding the Impact of Equity and Math Education*. DESE 2020 Interface Conference, Osage Beach, MO.
- Smith, A.** (2019, February). *Mathematical Self-Efficacy: What It Means for Teaching, Learning, and Success*. DESE 2019 Interface Conference, Osage Beach, MO.
- Smith, A.** (2019, February). *Mathematical Knowledge for Teaching: Implications for Practice, Beliefs, and Success*. DESE 2019 Interface Conference, Osage Beach, MO.
- Smith, A.** (2016, November). *Examining African-American Students' Experience in a Computer-Assisted Instructional Learning Environment and Its Effect on Their Mathematical Self-Efficacy Beliefs*. National Alliance of Black School Educators (NABSE) Annual Conference, Tampa, FL.
- Smith, A.** (2016, October). *Mathematical Self-Efficacy: What It Means for Teaching, Learning, and Success*. Mississippi Council of Teachers of Mathematics (MCTM) Annual Conference, Ellisville, MS.
- Smith, A.** (2016, June). *Usage of the Emporium Model and Its Effects on Mathematical Self-Efficacy for African American Students Enrolled in Post-Secondary, Developmental Mathematics Courses: A Phenomenological Approach*. 2016 STEAM/STEM International Education Conference, Honolulu, HI.
- Smith, A.** (2015, October). *Fostering Thinkers of Calculus through Questioning*. MCTM Annual Conference, Oxford, MS.

Smith, A. (2015, May). *Investigating Mathematical Self-Efficacy in African American College Students Enrolled in Developmental Mathematics Courses*. Learning and the Brain Annual Conference, New York, NY.

PUBLICATIONS

Lembke, E. S., Powell, S. R., Ketterlin-Geller, L. R. & **Smith, A. E.** (2020, Apr 17 - 21) *Improving Teachers' Mathematics Instruction for Middle School Students at Risk/With Disabilities: Collaboration to Support Algebraic Readiness* [Roundtable Session]. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/vqtp78o> (Conference Canceled)

Smith, A. E. (2020, Apr 17 - 21) *Examining the Influence of an Emporium Model Approach on African American Students' Math Self-Efficacy Beliefs* [Paper Session]. AERA Annual Meeting San Francisco, CA <http://tinyurl.com/qqfcvxw> (Conference Canceled)

Hickson, D.A., Diez-Roux, A.V., **Smith, A.E.**, Tucker, K.L., Gore, L.D., Zhang, L., and Wyatt, S.B. (2011). Associations of Fast Food Restaurant Availability With Dietary Intake and Weight Among African Americans in the Jackson Heart Study, 2000–2004. *American Journal of Public Health* 101(S1), S301-S309.

PROFESSIONAL ACTIVITIES

Reviewer

American Educational Research Association (AERA) 2021 Annual Meeting **2020-present**
SIG-Critical Examination of Race, Ethnicity, Class, and Gender in Education
Committee on Scholars of Color in Education

- Review submissions for acceptance to AERA 2021 Annual Meeting
- Evaluate based on content, appropriateness, and strength of scholarly contribution

Facilitator

Standards Institute

2020-present

- Employed expertise in intersection of equity and math education to equip school and district leaders across the country to adopt and refine a lens of equity and access to advance their practice and maintain systems that ensure learning and success for all students.
- Advanced the tenets of UnboundEd, a national organization that promotes high-quality learning for all students by offering tools to disrupt inequity and be change agents at all levels of education.

Board of Directors

LaSalle Middle School

2018-present

- Oversee operations and recommend actions in accordance with professional experience, mission, vision, and by-laws of the charter school.

Board of Directors **2016-present**
Mississippi First

- Oversee operations and recommend actions in accordance with professional experience, mission, vision, and by-laws of the non-profit organization.

Expert, Independent Alignment Study **Winter 2019**
Missouri Department of Elementary and Secondary Education (DESE)

- Analyzed state test assessment items to align to state standards

Proposal Review Panelist **Summer 2018**
National Science Teachers Association

- 2019 National Science Teachers Association (NSTA) 2019 National Conference
- “Confluence of Equity and Education” Strand

Expert, MAP Grade Level Standard Setting and Cut Point Articulation **Summer 2018**
Missouri Department of Elementary and Secondary Education (DESE)

- Worked in conjunction with DESE to determine achievement level cut points based on student performance data.
- Utilized multiple norming measures to ascertain fair and consistent achievement cut points of student performance.

Expert, MAP Grade-Level Item Writing Workshop **Spring 2018**
Missouri Department of Elementary and Secondary Education (DESE)

- Worked in conjunction with DESE to evaluate the fairness of potential items on state assessments.
- Analyzed items for standard alignment, appropriate rigor, and absence of contexts that potentially favor one group over another

Expert, Content Bias Review **Fall 2017**
Missouri Department of Elementary and Secondary Education (DESE)

- Worked in conjunction with DESE to review potential Missouri state assessment items to ensure balanced treatment; accessible, unbiased items; and control of potential bias, stereotyping, and insensitivity in the items or in the test-related materials.

Math Specialist/Expert **Fall 2016**
Precious Martin & Associates, PLLC

- Developed Excel Spreadsheet database to organize figures for estate heirship
- Testified as Expert Witness to justify figures and methods by which they were determined.

Project Coordinator and Faculty Mentor **2013-2016**
Robert Noyce Scholarship Program, Tougaloo College

- Managed NSF grant budget that supported student and faculty travel, student stipends, scholarships, and instructional materials
- Submitted annual reports to the National Science Foundation to communicate progress and action steps for continued development
- Designed and facilitated monthly business meetings for Scholarship Fellows

- Advised, supported, and prepared Scholarship Fellows for qualification to teach mathematics and science in Mississippi

Guest Lecturer

Spring 2016

Jackson State University, School of Public Health

- PHS 503: Introduction to Biostatistics and Computer Applications
- Topic: “Binomial and Normal Distribution”

Volunteer Judge

Spring 2016

Emerging Researchers National Conference in STEM

- Judged Undergraduate and Graduate Posters and Oral Presentations
- Category 1: Science and Mathematics Education
- Category 2: Social, Behavioral, and Economic Sciences

Expert Panelist

Spring 2016

Tougaloo College, Spring 2016 Faculty Institute

- “Professional Learning to Promote Motivation and Academic Performance among Diverse Students”
- Theme: “Promoting Diversity and Motivation with Teaching and Learning”

Proposal Review Panelist

2015-2016

National Science Foundation

- Graduate Research Fellowship Program
- STEM Education and Learning Research

Undergraduate Scholars Selection Panel

2015-2016

*The Jackson Heart Study Undergraduate Training and Education Center
Tougaloo College*

- Reviewed and evaluated applications for academic and holistic merit
- Led the panel interviews for applicants

COURSES TAUGHT

Harris Stowe State University, Department of Behavioral and Social Sciences

- RM 0150 Introduction to Statistics

Tougaloo College, Department of Mathematics and Computer Science

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| • MAT 091 Elementary Algebra | • MAT 201 Number Systems |
| • MAT 102 College Algebra I | • MAT 202 Geometry and Measurement |
| • MAT 103 College Algebra II | • MAT 221 Calculus I |
| • MAT 104 Trigonometry | • MAT 222 Calculus I |
| • MAT 106 Contemporary Mathematics | |

CERTIFICATIONS

- Teacher Certification, State of Missouri
 - License #635499
 - Endorsements: Mathematics 5-9, Mathematics 9-12, Vocal Music K-12
 - National Advanced Placement (AP) Certification, Calculus AB
 - Class AA Teacher Certification, State of Mississippi
 - License #243846
 - Endorsement Codes: 154 (Mathematics, 7-12), 166 (Music Education Vocal, K-12), and 609 (AP Calculus AB)
 - Teacher Certification, State of Tennessee
 - License #000583744
 - Endorsement Code: 413 (Mathematics, 7-12)
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HONORS/AWARDS

Certificate of Merit, Jackson Public School District (Spring 2013)

SERVICE

Institution

Disciplinary Committee, Chair **2015-2016**

Tougaloo College

- Oversaw appeals to rulings made by the Judiciary Council
- Moderated discussions among other members (faculty/staff and students)
- Reviewed the decisions of Judiciary Council

Task Force: Re-Imagining the General Education Curriculum **2014-2016**

Tougaloo College

- Conceptualized current issues with the general education curriculum in an effort to offer recommendations for improvement and cultural/global relevance, using a lens of equity, opportunity, and access.

"Red and Blue" Paper Committee, Chair **2014-2015**

Tougaloo College

- Composed and published an essay outlining recommendations for research-based teaching and learning best practices that respond to the unique needs of Tougaloo College.
- Highlighted tenets of critical pedagogy and equity in an approach to reimagining students' learning experiences.

Community

Director of Educational Activities **2014-2016**

*Alpha Phi Alpha Fraternity, Inc.
Rho Xi Lambda Chapter*

UNCF Leadership Committee

2014-2015

Tougaloo College

- Coordinated efforts in raising \$125,000 for Tougaloo College.
- Worked in conjunction with the Office of Institutional Advancement.
- Spearheaded fundraising projects and appeal to donors.

Coach, Nashville Dolphins

Spring 2011

Nashville, TN

- Assisted children and young adults with special needs in learning how to swim and preparing for competitions

ADVISING AND MENTORING

Undergraduate Students

- Course selection
- Major selection and degree completion
- Senior research projects

Noyce Scholars

- Course selection
- Degree completion
- Math/Science education research projects and presentations
- Summer internship opportunities
- Career placement

PROFESSIONAL ORGANIZATIONS

- American Educational Research Association
- National Alliance of Black School Educators
- National Council of Teachers of Mathematics

LANGUAGES

- Spanish (Speak, Read, Write: Functionally)
- Italian (Speak, Read, Write: Functionally)
- French (Speak, Read, Write: Minimally)