Missy D. Cosby
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National Center for the Elimination of Educational Disparities
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Updated August 2026

ACADEMIC APPOINTMENTS

August 2026 to current	**Assistant Professor of Mathematics Education** Morgan State University, Baltimore, MD Department of Advanced Studies, Leadership, and Policy School of Education and Urban Studies National Center for the Elimination of Educational Disparities
August 2022 to July 2026	**Assistant Professor of Math/STEM Education** University of Tennessee, Knoxville, TN Theory & Practice in Teacher Education College of Education, Health, and Human Sciences
May 2021 to July 2022	**Postdoctoral Research Associate** University of Michigan, Ann Arbor, MI Educational Studies, School of Education Under the direction of Dr. Maisie Gholson
May 2020 to July 2022	**Postdoctoral Research Associate** Michigan State University, East Lansing, MI Physics Education Research Lab, College of Natural Sciences Under the direction of Dr. Vashti Sawtelle

EDUCATION

May 2020	**PhD, Educational Psychology & Educational Technology, concentration in Mathematics Education** Michigan State University, East Lansing, MI Dissertation: *No Black girls allowed: A poststructural analysis of controlling images in Black girls' undergraduate mathematics learning experiences* Graduate Certificate – Urban Education
2011	**M.A., Educational Technology** Michigan State University, East Lansing, MI
2003	**M.A., Curriculum and Teaching** Michigan State University, East Lansing, MI

2000 **Secondary Education Teaching Certificate, Mathematics**
Michigan State University, East Lansing, MI

1999 **B.S. with Honor, Mathematics, Minor: Computer Science**
Michigan State University, East Lansing, MI

K-12 TEACHING & PROFESSIONAL EXPERIENCE

Aug 2000 to June 2021 Okemos High School, Okemos Public Schools, Okemos, MI
High school mathematics teacher

Aug 2013 to June 2018 Okemos High School, Okemos Public Schools, Okemos, MI
RtI/MTSS Mathematics Instructional coach

PUBLICATIONS & PRESENTATIONS

ARTICLES PUBLISHED IN REFEREED JOURNALS

Reeves, S. M., Starks, F. D., **Cosby, M. D.**, Price, B., Mahoney, V., & Millunchick, J. (2026). Attending to Teacher Perspectives in I-STEM Curriculum Supplementation: The Case of Chip Kids. *Education Sciences, 16(8)*, 1178.

Raygoza, M., **Cosby, M. D**., Orr, S., King, B., Burris, J., & Soni, S. (2026). Cultivating mathematics teacher educators' hearts, critical consciousness, and professional praxis through book study. *Journal of Humanistic Mathematics, 16(2)*, 120 - 137.

Cosby, M. D., Dentel, S., & Sawtelle, V. (2026). Lunch & Learn: Fostering moments that support persistence for community college STEM students. *Community College Journal of Research and Practice*, 1-21.

Carter Andrews, D. J., & **Cosby, M. D.** (2021). Eradicating Anti-Black Logics in Schools: Transgressive Teaching as a Way Forward. *Multicultural Perspectives*, *23*(3), 135-142.

Bouck, E.C. & **Cosby, M. D.** (2018) Response to intervention in high school mathematics: One school's implementation, *Preventing School Failure: Alternative Education for Children and Youth.* 63(1), 32 – 42.

Bouck, E.C. & **Cosby, M. D.** (2017). Tier 2 response to intervention in secondary mathematics education. *Preventing School Failure: Alternative Education for Children and Youth,* 61(3), 239-247.

Cosby, M. D., Horton, A., & Berzina-Pitcher, I. (2017). Math Is All Around Us: Exploring the Teaching, Learning, and Professional Development of Three Urban Mathematics Teachers. *Journal of Computers in Mathematics and Science Teaching*, *36*(3), 287-305.

BOOK CHAPTERS

Starks, F.D. & **Cosby, M. D.** (2025). Herstory: Exploring Black women educators' cultivation of homeplace for the support and nurturing of Black children. In V. Bamsey & L.J. McNair (Eds.). *Antiracism in Early Childhood Education*. (Invited)

Starks, F.D., & **Cosby, M. D.** (2025). Black Feminist Pedagogies, Contemporary. In E. E. Blair & S. L. Deckman (Ed.) *The Sage Encyclopedia of Education and Gender*. (Invited)

Shah, N., **Cosby, M. D**., Crespo, S., Goffney, I. M., Hand, V., Kalinec-Craig, C., & Wood, M. B. (2021). "Bossy," "boy," and "urban": Troubling coded language in mathematics education research. In J. Langer-Osuna & N. Shah (Eds.) *JRME Monograph 17: Making Visible the Invisible: The Promise and Challenges of Identity Research in Mathematics Education* (pp. 13 - 32). Reston, VA: National Council of Teachers of Mathematics.

McKinney de Royston, M., Sengupta-Irving, T., & **Cosby, M. D.** (2021). (Re)Imagining Mathematical Identities: Toward Political Clarity in Knowledge Generated about Minoritized Youth. In J. Langer-Osuna & N. Shah (Eds.) *JRME Monograph 17: Making Visible the Invisible: The Promise and Challenges of Identity Research in Mathematics Education* (pp. 59 - 82). Reston, VA: National Council of Teachers of Mathematics.

Osibodu, O., & **Cosby, M. D.** (2018). Shades of Blackness: Rehumanizing mathematics education through an understanding of Sub-Saharan African immigrants. In R. Gutierrez & I. Goffney (Eds.), *Annual Perspectives in Mathematics Education 2018: Rehumanizing Mathematics for Black, Indigenous, and Latinx Students* (pp. 39 - 49). Reston, VA: National Council of Teachers of Mathematics.

Bouck, E. C., Flanagan, S. M., & **Cosby, M. D.** (2018). Apps as assistive technology. In M. Khosrow-Pour (Ed.), *Encyclopedia of Information Science and Technology, Fourth Edition* (pp. 266 – 276). IGI Global.

POLICY BRIEFS

Cowen, J.M., Sanderson, D., Sattin-Bajaj, C. and **Cosby. M. D.** (2018). "MOTOR CITY MILES: Student travel to schools in and around Detroit". Report by the *Urban Institute* and the Education Policy Innovation Collaborative (EPIC)

REFEREED CONFERENCE PROCEEDINGS

Cosby, M. D. (2024). Capturing Intersectionality?: Exploring a method used to study the mathematics learning experiences of Black girls. In Kosko, K. W., Caniglia, J., Courtney, S. A., Zolfaghari, M., & Morris, G. A., (Eds.). *Proceedings of the forty-sixth annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education.* (pp. 245 - 254). Kent State University.

PAPER PRESENTATIONS

Cosby, M.D., & Starks, F. D. (2025). *What's in a name?: A contemporary practices of self-definition through Black feminist theories in education. .* National Women's Studies Association (NWSA). Presented at the annual meeting of the National Women's Studies Association, San Juan, PR.

Cosby, M.D., & Quan, G. (2025). *Exploring foundational knowledge of university advocates supporting transfer students of color in the natural sciences.* AERA Division J. Presented at the

annual meeting of the American Educational Research Association, Denver, CO.

Cosby, M.D., Kyle, T. & Joyner, J. (2025). *What's in a name: Establishing a community of support for Black women math teachers*. AERA Division G. Presented at the annual meeting of the American Educational Research Association, Denver, CO.

Cosby, M.D. & Gholson, M. (2024). Curricular interventions for the development of positive math identities: Tensions and possibilities. AMS Special Session on Informal Learning, Identity, and Attitudes in Mathematics, Presented at the Joint Mathematics Meetings, San Francisco, CA.

Cosby, M.D. (2024). *Capturing intersectionality? Exploring a method used to study the mathematics learning experiences of Black girls.* Presented at North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Cleveland, OH. Kent State University.

Cosby, M.D., Quichocho, X. R., & Sawtelle, V. (2023). Representing identity resources supporting a STEM transfer student: A methodological inquiry. AERA Division J. Presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Cosby, M.D. & Gholson, M. (2024). Curricular interventions for the development of positive math identities: Tensions and possibilities. AMS Special Session on Informal Learning, Identity, and Attitudes in Mathematics, Presented at the Joint Mathematics Meetings, San Francisco, CA.

Cosby, M.D., Quichocho, X. R., & Sawtelle, V. (2023). Representing identity resources supporting a STEM transfer student: A methodological inquiry. AERA Division J. Presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Cosby, M. D. (2021). Telling Black Girl Mathematics Learners' Stories: Poststructural Race Theory, Black Feminist Thought, and Issa Methodology. AERA Division G. Presented at the annual meeting of the American Educational Research Association Virtual Conference.

Cosby, M. D. (2021). No Black Girls Allowed: Analyzing the Role of Controlling Images in Black Girls' Mathematics Learning.. SIG - Research in Mathematics Education. Paper presented at the annual meeting of the American Educational Research Association Virtual Conference.

Cosby, M. D. & Quichocho, X. R. (2021). "They've Been Good to Me": Transforming a Black Girl Transfer's Experience Through a Science Program. SIG - Research Focus on Black Education. Paper presented at the annual meeting of the American Educational Research Association Virtual Conference.

Jackson, B., **Cosby, M. D.**, Osibodu, O., Byun, S., & Herbel-Eisenmann, B. (2020, February). Constructing an anti-racist mathematics pedagogical tool for mathematics teacher educators. Paper presented at the Association of Mathematics Teacher Educators, Phoenix, AZ.

Osibodu, O., Jackson, B., **Cosby, M. D.**, Byun, S., & Herbel-Eisenmann, B. (2019, November). Constructing an anti-racist mathematics pedagogical tool for mathematics teacher educators. In S. Otten, A.G. Candela, Z. de Araujo, C. Haines & C. Munter (Eds.). Proceedings

of the 41st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA) (pp. 323-324). St Louis, MO: University of Missouri.

Shah, N., **Cosby, M. D**., Crespo, S., Goffney, I. M., Hand, V., Kalinec-Craig, C., & Wood, M. B. (2019, April). "Bossy," "boy," and "urban": Troubling coded language in mathematics education research. SIG - Research in Mathematics Education. Paper presented at the annual meeting of the American Educational Research Association, Toronto, ON.

McKinney de Royston, M., Sengupta-Irving, T., & **Cosby, M. D.** (2019, April). (Re)Imagining Mathematical Identities: Toward Political Clarity in Knowledge Generated about Minoritized Youth. SIG - Research in Mathematics Education. Paper presented at the annual meeting of the American Educational Research Association, Toronto, ON.

Cosby, M. D. (2018, April). Double threat: Stereotypes of race and gender and the mathematics identities of Black girls. Division G Social Context of Education. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.

Cosby, M. D. (2018, April). Looking to the Bottom to Rise to the Top: My Journey to Criticality. SIG Critical Examination of Race, Ethnicity, Class, and Gender in Education. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.

Mishra, P., Graves-Wolf, L., Gunnings - Moton, S., Seals, C., Mehta, R., Berzina, I., ... & **Cosby, M. D.** (2016, March). Reinventing TPACK, STEM Teaching and Leadership in an Urban Context. In *Society for Information Technology & Teacher Education International Conference* (pp. 2212-2216). Association for the Advancement of Computing in Education (AACE).

Mishra, P., Wolf, L.G., Gunning-Moton, S., Seals, C., Berzina-Pitcher, I., Mehta, R., Mehta, S., Horton, A., **Cosby, M. D.**, Shack, K., & Marcotte, C. (2016, March). *Reinventing TPACK, STEM Teaching and Leadership in an Urban Context*. Symposium conducted at Society for Information Technology and Teacher Education (SITE) Annual conference, Savannah, GA.

Mishra, P., Seals, C., Beymer, P. N., Mehta, R., **Cosby, M. D.**, & Shack, K. (2016, March). Creative Uses of Mobile Devices in the STEM Classroom. Session presented at the annual meeting of the Michigan Association of Computer Users in Learning, Grand Rapids, MI.

POSTER PRESENTATIONS

Cosby, M. D. & Osibodu, O. (2018). Math matters: Figuring mathematics learning spaces around importance, utility, and smartness. In T. Hodges, G. Roy & A. Tyminski (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1005). Greenville, SC: University of South Carolina & Clemson University.

INVITED TALKS

Cosby, M. D. (2022, August). *Becoming: Considering Social and Personal Identities for Mathematics Teaching and Learning*. Project NExT: New Experiences in Teaching, Mathematical Association of America, Philadelphia, PA.

Cosby, M. D. (2022, March). *Putting Equity at the Center of Change*. Critical Issues in Mathematics Education 2022: Initiating, Sustaining, and Researching Mathematics Department Transformation of Introductory Courses for STEM Majors, Mathematical Sciences Research Institute, Berkeley, CA.

Cosby, M. D. (2021, February). *Researching Black Girlhood & Womanhood in Mathematics as Intersectional Praxis: A Conversation for Emerging Scholars.* Brown Bag Series, Rutgers Graduate School of Education, New Brunswick, NJ.

Osibodu, O. & **Cosby, M. D.** (2020, September). *Shades of blackness: Rehumanizing mathematics education through an understanding of Sub-Saharan African immigrants.* Rehumanizing Mathematics Book Study, California Mathematics Council, Kentfield, CA.

PROFESSIONAL DEVELOPMENT PRESENTATIONS

Gholson, M. & **Cosby, M.D.** (2022, 2020, 2019, 2018). Intersectionality. Professional Development presented for the Michigan Department of Education African American Student Initiative, Lansing, MI.

Mishra, P. & **Cosby, M. D.** (2017, March). Creative Uses of Mobile Devices in the STEM classroom. Professional Development presented for Peoria Unified School District, Glendale, AZ.

FELLOWSHIPS AND SCHOLARSHIPS

2023 Research Development Academy Fellow through the UTK Office of Research, Innovation, & Economic Development

2019 Michigan State University Graduate School Dissertation Completion Fellowship

2019 NAEd/Spencer Dissertation Fellowship Semifinalist

2018 Michigan State University College of Education Urban Education Retention Fellowship

2018 Robert Craig Fellowship in Psychological Studies in Education

2018 Clifford E. Erickson Memorial Fund Scholarship

2017 Michigan State University College of Education Urban Education Retention Fellowship

2016 Michigan State University College of Education Urban Education Recruitment Fellowship

2015 Michigan State University Rasmussen Graduate Fellowship

2015 Michigan State University College of Education Dean's Scholar Award

HONORS AND AWARDS

2015 Faculty – Staff Award Competition in Instructional Technology

Best Fully Online Course, Course Instructor

2006 Okemos Education Foundation Excellence in Teacher Award

2006 Michigan State University College of Education Crystal Apple Award

GRANTS

2025 - 2026, **PI**, *Curriculum development for informal STEM learning* ($19,200). Community - University Research Collaboration Initiative, University of Tennessee - Knoxville.

2023 – 2028, **Co-PI**, *Transfer Advocacy Groups: Transforming culture to support transfer students of color in undergraduate physics (*$3,063,258; PIs: Vashti Sawtelle & Gina Quan, Michigan State University and San Jose State University). National Science Foundation. (NSF Grant No. 2224295). *Recently terminated due to no fault of our own.*

UNIVERSITY TEACHING, RESEARCH, & PROFESSIONAL EXPERIENCE

COMMUNITY COLLEGE AND ADJUNCT APPOINTMENTS

Sept. 2013 to December 2014 Adjunct Math Instructor
Lansing Community College, Lansing, MI

July 2013 to April 2015 Instructor
M.A. Educational Technology Certificate Program
Michigan State University, East Lansing, MI

TEACHING AND TEACHING ASSISTANTSHIP APPOINTMENTS

University of Tennessee

MEDU 545: Teaching Algebra in the Middle Grades
(Graduate) Fall 2025

MEDU 580: Teaching Mathematics in the Secondary School
(Graduate) Fall 2025

MEDU 523: Teaching Student Who Struggle with Math
(Graduate) Spring 2023, 2024, 2025, 2026 Summer 2024

	STEM 581: Equity In STEM Education (*Graduate)* Fall 2022, 2023, 2024
University of Michigan	EDUC 413: Teaching Secondary Mathematics (*Undergraduate/Graduate*). Fall 2022.
	EDUC 652/654: Directed Teaching in Secondary School/Problems and Principles of Secondary Education (G*raduate*). Spring 2022.
	EDUC 302/304: Directed Teaching in Secondary School/Problems and Principles of Secondary Education (*Undergraduate*). Spring 2022.
	EDUC 737: Identity and Agency in Mathematics and Science Education (*Graduate*). Fall 2021.
Michigan State University	CEP 818: Creativity in Teaching and Learning (*Graduate*). Fall 2019.
	CEP 956: Mind, Media, and Learning (Graduate). Teaching Assistant – Dr. Christine Greenhow (instructor of record). Fall 2018
	CEP 800: Psychology of Learning in Schools and other Settings (*Graduate*). Summer 2019.
	CEP 815: Technology and Leadership (*Graduate*). Summer 2019, Fall 2016, Spring 2017, Fall 2017.
	CEP 822: Approaches to Educational Research (*Graduate*). Summer 2019.
	CEP 810: Teaching for Understanding with Technology (*Graduate*). Summer 2018.
	CEP 811: Adapting Innovative Technologies in Education (*Graduate*). Summer 2018.
	CEP 812: Applying Educational Technology to issues of Practice (*Graduate*). Summer 2018.
	TE 150: Reflections on Learning - Urban Education Cohort (*Undergraduate*). Spring 2017, 2019
	CEP 805: Learning Mathematics with Technology (*Graduate*). Fall 2015, Fall 2016.

CEP 806 Learning Science with Technology (Graduate). Spring 2015, Spring 2016.

RESEARCH ASSISTANTSHIP APPOINTMENTS

Spring 2020	Graduate Student Researcher for SSTEM *Co-Principal Investigators*: Drs. Vashti Sawtelle (Michigan State University) and Angela Little
Fall 2017 to Spring 2019	Graduate Student Researcher for National Science Foundation Project Access, Agency, and Allies in Mathematical Systems (A3IMS) *Co-Principal Investigators*: Drs. Beth Herbel-Eisenmann (Michigan State University), Victoria Hand (University of Colorado – Boulder), Tonya Bartell (Michigan State University), & Mary Foote (The City University of New York)
Fall 2017 - Spring 2018	Graduate Student Researcher Educational Policy Innovation Collaborative at Michigan State University (EPIC) *Center Directors:* Drs. Joshua Cowen & Katharine Strunk

GRADUATE STUDENT COMMITTEES

2026	Ed.S committee member for Kayla Haugen, Practitioner
2025	Ph.D. dissertation committee member for Tanya Foreman, Educational Studies.
2023	Ph.D. dissertation committee member for Charles Flowers, Child and Family Studies.
2023	Ph.D. dissertation committee member for Matthew Riddle, Teacher Education.
2019	Ph.D. practicum committee member for Marissa Zhu, Educational Psychology & Educational Technology. Project title: Exploratory analysis of the self-regulated learning strategies that support problem-solving performance in pre-service teaching students
2018	Ph.D. practicum committee member for Katie Rich, Educational Psychology & Educational Technology. Project title: Exploring teacher agency in the context of curriculum materials use.
2017	Ph.D. practicum committee member for Eileen Mooney, Educational Psychology & Educational Technology. Project title: Comparing mathematical discussions in synchronous, anonymous, computer-supported collaborative learning with face-to-face environment.

INSTITUTIONAL AFFILIATIONS & MEMBERSHIPS

American Educational Research Association (AERA)
Division J (Postsecondary Education)
SIG: Research Focus on Black Education
SIG: Research in Mathematics Education

Association of Mathematics Teacher Educators (AMTE)

Mathematical Sciences Research Institute (MSRI)

National Council of Teachers of Mathematics (NCTM)

SERVICE & OUTREACH

Institutional Service

2019 – 2020	Office of Inclusion and Intercultural Initiatives MSU Race Dialogues Facilitator, Michigan State University
2017 - 2018	Counseling, Educational Psychology, and Special Education Department Chair Search committee, Michigan State University

Manuscript Reviewer

2023	*Journal of Mathematical Behavior*
2022	*International Journal of STEM Education*
	Cognition and Learning
2021	*International Journal of Research in Undergraduate Mathematics Education*
2018	*Understanding the Intersections of Race, Gender, and Gifted Education: An Anthology By and About Talented Black Girls and Women in STEM.* (Edited Book) Proposal Reviewer
2018	American Educational Research Association - (SIG) Research Focus on Black Education
2018	American Educational Research Association - (SIG) Research in Mathematics Education

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

2023	Association of Mathematics Teacher Educators STaR Fellows Program
2023	Association of Mathematics Teacher Educators Early Career BIPOC Mentoring Program