

Montrey J. Pertile, Ph.D. Bio

Montrey J. Pertile, Ph.D., is a professional researcher and educator whose work centers on equity in STEM education for Black youth. He serves as a **Postdoctoral Research Associate** at the **University of Houston** in the **Authentic Community-Engaged Scholarship (ACES) in STEM Education Fellowship**, where he contributes to research and programmatic initiatives that elevate culturally grounded, community-driven STEM learning.

Dr. Pertile brings **over 12 years of K–12 educational experience**, having taught a wide range of subjects including **Mathematics, Technology Applications, Principles of Engineering, Principles of Construction**, and **STEM Lab**. Throughout his teaching career, he has focused on leveraging technology to create engaging, hands-on, and student-centered learning experiences. Outside the classroom, he has served as a **mentor teacher** supporting colleagues with educational technology integration and worked as a **campus technologist**, helping bridge instructional goals with effective digital tools and practices.

His research examines informal STEM education across school, community, and maker-centered environments. Dr. Pertile's work focuses on **Black students in STEM**, the role of **makerspaces** in culturally responsive and culturally sustaining pedagogy, and **community-engaged enrichment programs**. He is committed to understanding how design-based learning, maker education, and educational technology can serve as pathways for empowerment, identity development, and liberation-oriented STEM learning. As a published scholar and frequent conference presenter, he is dedicated to advancing research and practice that transform STEM learning ecosystems through community engagement, creativity, and equity.

In addition to his academic work, Dr. Pertile is the co-founder of **SC4M Education**, an organization grounded in the pillars of **STEM, Community, Awareness, and Maker**. Through SC4M, he continues his mission of building community partnerships, fostering empowerment, and equipping learners with meaningful STEM skills that support long-term success and opportunity.

Dr. Pertile holds a **Bachelor of Science in Construction Science** from **Prairie View A&M University**, as well as a **Master of Education** and a **Ph.D. in Curriculum and Instruction** from the **University of Houston**, where he specialized in **Learning Design and Technology**.