

George Chitiyo, Ph.D.

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Professional Profile

- Experienced evaluator and professor with over 15 years of expertise in program evaluation, educational research, and statistical consulting.
- Proficient in research design, survey design, and statistical analysis.
- Teaches graduate-level courses in educational research, applied assessment, quantitative methods, and program evaluation.

Evaluation & Research Experience

- Serves (or has served) as project evaluator on projects in various fields including education, healthcare, and STEM-focused programs.
- Evaluated National Science Foundation (NSF) projects in Advanced Technological Education (ATE), Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM), Secure and Trustworthy Cyberspace – Education (SaTC-EDU), and Research Experiences for Undergraduates (REU Site).
- Has evaluated grants supported by state agencies such as the Tennessee Higher Education Commission (THEC), the Tennessee Department of Health, and the Tennessee Board of Regents (TBR).

Select Projects:

- NSF - ATE: Mobile AMP: Mobile Additive Manufacturing Platform for the 21st Century STEM Workforce Enhancement
- NSF - ATE: SMARTT: Smart Manufacturing for America's Revolutionizing Technological Transformation
- NSF - ATE: AM-WATCH: Additive Manufacturing – Workforce Advancement Training Coalition and Hub
- NSF - S-STEM: Onboarding Rural Area Mathematicians and Professionals in Science
- NSF - SaTC-EDU: Adversarial Malware Analysis
- NSF - REU Site: STEM Research in Energy, Manufacturing, Techno-Entrepreneurship
- THEC: Teaching Mathematics with Chess
- TN Department of Health: Music & Memory Program in Nursing Homes

Publications

- Authored or co-authored over 40 peer-reviewed journal articles and book chapters on topics including the cognitive and academic impacts of chess-based instruction, economics of higher education, STEM education, psychosocial aspects of HIV and AIDS on children and youth in sub-Saharan Africa, and inclusive education.

Evaluation Approaches

- Applies appropriate evaluation theories and approaches based on the context of each project. Uses triangulation strategies to enhance rigor, adaptability, and contextual relevance of evaluation methods.