

Expanding the Methods of Education Researchers with Generative AI (EMERGai)

What is EMERGai?

A year-long professional development institute to empower early- and mid-career **STEM education researchers at resource-limited institutions to integrate Generative AI effectively and ethically** into their research workflows.

How is it structured?

Two phases: a week-long **in-person workshop** in the summer, followed by an **online community of practice** during the **academic year** consisting of virtual gatherings featuring webinars, facilitated discussions, and collaborative exploration.

Assumptions & principles

- Learners arrive with a research proposal.
- **Hands-on practice** & learning in context.
- **Cooperative learning** base groups.
- Support use while **minimizing any personal, institutional, and societal harm** that may arise from using GenAI.

2026 Summer Workshop

Day 1: Introduction, Research Project Overview, & GenAI Literacies

Day 2: GenAI in Literature Identification, Review & Synthesis

Day 3: GenAI in Methods & Data Collection

Day 4: Data Analysis & Agentic AI

Day 5: Research Project & Continuous Learning

Challenges & solutions

- * Decontextualized training → Applicants proposed research study/deliverables
- * Balancing AI opportunities and risks → Highlighting skepticism in context

Project Team



George Veletsianos
Principal Investigator
University of Minnesota



Panayiota (Pani) Kendeou
Co-Principal Investigator
University of Minnesota



Emma Braaten
Co-Principal Investigator
NC State University



Krista Glazewski
Co-Principal Investigator
NC State University



Ela Castellanos-Reyes
Senior Personnel
NC State University



Qin Xie
Research Assistant
University of Minnesota



Clayton Whetung
Research Assistant
University of Minnesota



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