Society for Research on Educational Effectiveness

Focus on AI: Research Methods Webinar Series

Webinar 4

Title: Accelerating Responsible and Rigorous Quantitative Research with AI Agents: An Introduction to Agentic Orchestration and the Data Analyst Augmentation Framework (DAAF)

Date/Time: July 27, 2026 | 11:00am – 12:30pm Eastern Time

Presenter: Brian Heseung Kim, Ph.D., Founder & Chief Data Scientist, Open Augments LLC

Abstract: AI agents can now autonomously plan, write, review, and execute analytic code, raising urgent questions about their role in research given known risks like hallucinations and inaccuracies. This session provides quantitative education researchers with an approachable framework for realizing the benefits of AI agents for more complex research workflows, while mitigating their very real risks, using DAAF: an open-source framework for Claude Code designed to accelerate data analysis while strictly enforcing transparency, reproducibility, and rigor. In addition to building familiarity with how to use and extend DAAF for their own purposes, attendees will leave with a strong understanding of the pros and cons of current AI agent frameworks for data analysis workflows, the main design considerations involved in robust "context engineering" practices, what these tools currently can and cannot do, as well as the intuition needed to evaluate their appropriateness for their own work.