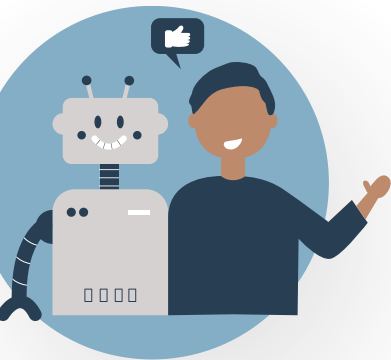


A Human-AI Approach for High-Impact Tutoring

RESEARCH SUMMARY



An AI tool helped math tutors and students by providing real-time, expert-backed suggestions to tutors.

In the first ever randomized controlled trial of a human-led, AI-assisted real-time tutoring initiative adopted by FEV, we discovered that an AI tool—Tutor CoPilot—enhanced math tutoring sessions. This led to an **average 9 percentage point improvement in student achievement** for students with less-skilled tutors.

Key Findings:



Boosted Tutor Effectiveness

Tutor CoPilot **helped tutors** by providing educator-curated, AI-driven suggestions on how to address student mistakes, enhancing their ability to guide students effectively through math problems.



Improved Student Outcomes

Students were **10 percent more likely to progress** through math tutoring session assessments successfully when the AI tool was used by tutors. Similar to other studies on tutoring, this approach particularly benefited students who started with low- and mid-level achievement.



Supported Scalability

AI assistance can elevate virtual tutoring quality, making it easier for districts to offer high-quality support. This approach costs approximately \$20 per-tutor annually, in comparison to **\$3,000+** spent per-teacher annually for professional development.



Reinforced Idea of Human-Led, AI-Assisted Education Practices

This study offered a promising example of **how the combination of AI and human insights can help human tutors**—and novice educators more generally—improve educational outcomes. Tutors were able to use their knowledge to adapt or disregard AI suggestions based on their unique understanding of an individual student's needs.

The AI Assistant Particularly Helped Less-Skilled Tutors (by Tutor Quality Rating)

