

Aman Yadav

Lappan-Phillips Professor of Computing Education at Michigan State University

East Lansing, MI, US

An expert in STEM education, with a specific focus on computer science and engineering education

Biography

Aman Yadav's research and teaching focuses on improving student experiences and outcomes in computer science and engineering classrooms at the K-16 level. Within this line of inquiry, he studies: 1) how to prepare pre-service and in-service teachers to teach computing ideas, such as how to integrate computational thinking ideas within subject areas; and (2) how to implement problem-based learning approaches to improve student outcomes in undergraduate computer science and engineering. He is a principal investigator on a National Science Foundation grant to design, implement, and assess a high-quality, integrated curriculum, and professional development that supports elementary school teachers in embedding computational thinking (CT) into their classrooms. He is also a PI on another NSF grant to establish an evidence-based professional development program, including continuous online support, to improve teachers' knowledge to teach computer science concepts at the high school.

Industry Expertise

Writing and Editing, Computer Hardware, Education/Learning, Research, Computer Software

Areas of Expertise

Teacher Professional Development, Case-based Instruction, Computer Science Education, STEM Education, Engineering Education, Computational Thinking, Problem-Based Learning

Education

Michigan State University

Ph.D. Educational Psychology and Educational Technology

Michigan State University

M.S. Electrical Engineering

Deenbandhu Chhotu Ram University of Science and Technology

B.S. Engineering

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