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Students，Teachers，and AI
Chatbots：Initial Reactions
to Generative AI in American
Schools
Dr．Victor R．Lee
Associate Professor，Graduate School of Education
Faculty Lead for Al＋Education
Stanford University
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Students，Teachers，and AI Chatbots：Initial Reactions to Generative AI in American Schools

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#### Abstract

For a little more than a year, generative AI - and specifically chatbot technology exemplified by (but not limited to) ChatGPT - has captured the attention and interest of learning technologists, educators, and the public media in the United States. Given the capabilities for this technology to produce content at a quality level that matches what we have expected to be only done by humans, several questions are being asked about how this will interface with our current K-12 education system. In this talk, I address two pressing concerns related to the AI chatbot technology from survey data: 1 . To what extent is this technology contributing to a decrease in academic integrity among secondary school students? and 2. How prepared are primary and secondary classroom teachers for this looming infusion of generative AI into their classrooms? The data for the first come from a study that was able to access student academic integrity data before and after the release of ChatGPT, providing an opportunity to examine changes over time. The data from the second study comes from a district-wide survey of teachers at a large urban school district in the US. I also share some of the efforts my team is undertaking to partner with secondary school teachers and provide curricular resources informed by the learning sciences to help teachers address AI as a topic in their classrooms.


Bio


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Victor R. Lee is an Associate Professor in the Graduate School of Education at Stanford University and serves as the faculty lead for AI + Education at the Stanford Accelerator for Learning. His current research examines teaching and learning about data and AI literacy, and past work has focused on science education, computer science education, and maker education. Lee has been past recipient of the National Science Foundation CAREER Award, the Jan Hawkins early career award from the American Educational Research Association, and a National Academy of Education/Spencer Foundation Postdoctoral Fellowship and is a Past-President and Fellow of the International Society of the Learning Sciences. He has co-authored major reports for the National Academies of Science, Engineering, and Medicine in the United States and will be a co-author for a forthcoming report on the future of data and computing education in K-12.

