

Center for Science and Technology (CSTE) 2020 Spring Lecture and Lunch Series



Mark Guzdial

University of Michigan

Wednesday, Feb. 12, 2020

Inventing Computing Education to Meet All Undergraduates' Needs

Mark Guzdial is a Professor in Computer Science & Engineering and Engineering Education Research at the University of Michigan. He was one of the founders of the International Computing Education Research conference. He was one of the leads on the NSF alliance "Expanding Computing Education Pathways" which helped US states improve and broaden their computing education. With his wife and colleague, Barbara Ericson, he received the 2010 ACM Karl V. Karlstrom Outstanding Educator award. He is an ACM Distinguished Educator and a Fellow of the ACM. His most recent book is *Learner-Centered Design of Computing Education: Research on Computing for Everyone* (Morgan & Claypool, 2015). He was the recipient of the 2019 ACM SIGCSE Outstanding Contributions to Education award.

1:00 – 2:00 Talk & Treat - Benjamin Building, Room 2119
Faculty Discussion & Lunch: 10:30 – 11:30 Room 2234
Student Discussion & Lunch: 11:45 – 12:45 Room 2234

Undergraduates at US Universities have figured out that computing skills are pretty important. Many CS departments are struggling to manage dramatically increasing enrollments. But that ignores an even bigger problem to meet the computing education needs of the rest of campus, for the other-than-CS majors. In this talk, I'll show evidence that students in the US are unlikely to get computer science in high school, then suggest ways that we can invent computing education in new ways to meet the needs of everyone to learn the CS skills they need.

Please direct any questions to Heather Killen,
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