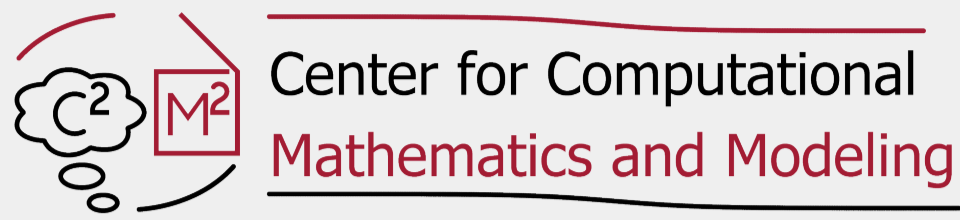




A C<sup>2</sup>M<sup>2</sup> Event



# Joint Seminar Applied Mathematics and Duckworth Scholars Studio

Wendy Ju Cornell University

## Theatre of the Autonomous Car

February 5th, 2020, 4:00pm  
Charles Library, Room 401  
Refreshments 3:30pm



**Abstract:** The advent of autonomous vehicles is both exciting and alarming. The success or failure of such systems will very much depend on the driver-vehicle interaction: whether people have a good assessment of what the car perceives and is likely to do, and how they might respond to different situations. In my lab at Cornell Tech, we are looking at how people will interact with vehicles in the future, particularly around shared control with automation, the emotional experience of automated driving, and opportunities of learning and adaptation. By using simulation technologies and techniques we can prototype and test interfaces to understand how best to design our future automobiles.

## Speaker Bio

Wendy Ju is an Assistant Professor at the Jacobs Technion-Cornell Institute at Cornell Tech and in the Information Science field at Cornell University. Dr. Ju came to Cornell Tech from the Center for Design Research at Stanford University, where she was Executive Director of Interaction Design Research, and from the California College of the Arts, where she was an Associate Professor of Interaction Design in the Design MFA program. Her work in the areas of human-robot interaction and automated vehicle interfaces highlights the ways that interactive devices can communicate and engage people without interrupting or intruding. Dr. Ju has innovated numerous methods for early-stage prototyping of automated systems to understand how people will respond to systems before the systems are built. She has a PhD in Mechanical Engineering from Stanford, and a Master's in Media Arts and Sciences from MIT. Her monograph on The Design of Implicit Interactions was published in 2015.



<https://www.math.temple.edu/events/seminars/applied>  
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