

2022 CSIG-VIS International Lecture Series 8

January 6, 2022 19:00-20:30
Beijing time (UTC/GMT+08:00)
<http://live.bilibili.com/23327855>

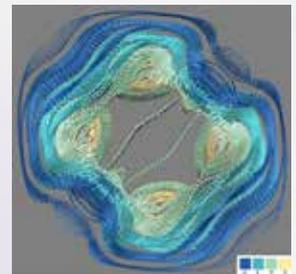


Prof. Jian Chen
The Ohio State University

Humanizing Visualization Through Vision Science

Data-intensive computing is central to so many aspects of society today. Scientists and engineers continue to collect and simulate data that challenge our most sophisticated computational tools. Today's users of data-intensive computing extend well from scientists to the general public. If we want people to make the right decisions with data, we have to get in their heads in a way they understand. Achieving this throughout visualization history has been putting knowledge into a more lifelike framework, more true to our day-to-day experience. Being the audience for a scene isn't so passive, after all. Inside, they're getting ready to see, act, and learn.

In this talk, I will first present specific examples in ensemble perception that have helped quantum physicists and brain scientists achieve perceptually accurate visualizations. I will further discuss an ongoing effort of how processes of analyzing and communicating data will change in the future to better serve this wide range of users and applications by intelligently understanding scholarly articles. Finally, I also hope to show our preliminary work on addressing Futures Grand Challenges of human-AI teaming.



Jian Chen, Ph.D., is a tenured Associate Professor in the Department of Computer Science and Engineering at The Ohio State University. Her research centers on interactive data visualization, three-dimensional immersive interaction, and computing for social good. She also shares multiple conference best paper/poster awards with her collaborators. Outside of computer science venues, Chen publishes work in applying visualizations to Brain Science. Her research has been supported by grants from the National Science Foundation, the National Institute of Standards and Technology; the Department of Defense, and industry. Before joining The Ohio State University, Chen was a tenure-track Assistant Professor at the University of Maryland, Baltimore County, and earned University Presidential Teaching Innovation Award. She did post-doctoral work at Brown University jointly with the Departments of Computer Science and Ecology and Evolutionary Biology. Her Ph.D. degree was from Virginia Tech (Advisor: Doug Bowman), focusing on immersive design. Outside of research and teaching, she enjoys serving as a paper chair for IEEE VIS 2021 and 2022, a voting member of IEEE Visualization Academy, and the Vice Chair for Conferences on the IEEE Visualization and Graphics Technical Community (VGTC)