

Designing Human-centered Tools for Data Analysis and Communication

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6:40 pm-8:30 pm
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Room 405, Teaching Buliding No.2
Peking University

Abstract:

The variety and volume of modern datasets entail research challenges in designing effective, expressive and scalable tools for data analysis and communication. In this talk, I will present two research projects addressing some of these challenges. The first project seeks to help analysts make sense of long, high-cardinality clickstream data.

I will discuss the design process and lessons learned from our research and present novel techniques for sequential data analysis. In the second project, we investigate the problem of designing visualization authoring tools. I will present design considerations and prototypes to support expressive and flexible visualization authoring.



Zhicheng Liu is a research scientist working at the Creative Technologies Lab, Adobe Research. He was a postdoctoral fellow at Stanford University after obtaining his PhD in Human-Centered Computing from Georgia Institute of Technology. His research on techniques and systems for interactive data analysis has received dissertation awards from Georgia Tech and IEEE Visualization and Graphics Technical Committee, as well as multiple best paper honorable mention awards at InfoVis, VAST and CHI.