Beyond the Search Bar: Augmenting Discovery, Synthesis, and Creativity With User-Generated Context

Wednesday, April 17th, 2024
2:00pm – 4:00pm
Design and Innovation Building, Room 306
or
Join with Zoom

Abstract

Searching and exploring information online is integral to everyday life, shaping how we learn, work, and create. As the Web paradigm evolves to include foundational AI models and beyond, we are experiencing a shift in how we search and work. With this transformation in human-AI interaction, it is important to investigate how we might present the user with the right information in the right context, the right representation, and at the right time.

In this talk, I will share how I have explored these questions in the context of complex critical information work (such as knowledge discovery, synthesis, and creativity). I present insights about user behaviors and challenges from mixed-method studies observing how people conduct this work using today’s tools. Then, I present novel AI-powered tools and techniques that augment these cognitive processes by mining rich contextual signals from unstructured user-generated artifacts. By deepening our understanding of human cognition and behavior and building tools that understand user contexts more meaningfully, I envision a future where human-AI interactions are more intuitive, personalized, and collaborative.

Committee members:

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