Human-AI Collaboration Lab

Dear Colleagues, Collaborators, Funders, Friends, and Future Lab Members:

2024 marks the official launch of the Human-AI Collaboration Lab. I am delighted to introduce the lab and share highlights from our first year. Our lab focuses on how to most effectively leverage AI to help people solve real-world problems in management, misinformation, and medicine. We do this by developing AI systems and conducting large-scale, digital experiments with human subjects to reveal the capabilities and limitations of AI tools, the dynamics of human-AI interactions, and the nature of human behavior in teams.

We're an interdisciplinary lab sitting between the Management and Organizations department at Kellogg, Northwestern's Computer Science department, and the Northwestern Institute for Complex Systems (NICO). Students in the lab are pursuing degrees in computer science, cognitive science, management, and law. There are already many congratulations in order for lab members: Fai Poungpeth, was awarded the Cognitive Science Summer Undergraduate Research Fellowship to pursue research at the intersection of AI and empathy, Negar Kamali, a PhD student in Computer Science, was awarded the Cognitive Science Advanced Research fellowship to pursue research on human perception of AI-generated images, and Aakriti Kumar, our postdoctoral scholar, recently finished her PhD on "Human Mental Models of Self, Others, and AI Agents."

Together with collaborators, we published research in Nature Medicine, Nature Comms, NeurIPS, and IEEE Security and Privacy. We also released a guide on How to Distinguish AI-Generated Images from Authentic Photographs led by Negar Kamali.

Over the past year, our research on human capabilities for deepfake detection was discussed in Science Magazine, CQ Researcher, New Scientist, PBS Newshour, CNA Insider, Mashable, Fox News, NBC News and twice by Kellogg Insight for work on detecting political deepfakes and AI-generated photos. Likewise, our research on the promises and challenges of physician-machine partnerships was covered by MIT News, NPR, She's Thinking Podcast, and Kellogg Insight.

We are deeply grateful to the Kellogg School of Management, Robert Pozen, and the Laboratory of Analytic Science for their generous support, which enables us to push the boundaries of what we know about human-AI collaboration. Our journey is just beginning, and we look forward to many human-human and human-AI collaborations ahead!

Sincerely,

Matt Groh
Assistant Professor, Principal Investigator Human-AI Collaboration Lab