NATIONAL ACADEMIES Sciences Engineering Medicine

Future Trajectories of Human-AI Collaboration and Teaming
Hosted by: Board on Human-Systems Integration (BOHSI)

As AI systems become more integrated into our daily lives, the nature of human-AI collaboration is evolving rapidly. While current interactions often involve humans directing AI, future Human-AI Teaming (HAT) will require more dynamic, bidirectional partnerships. This webinar series will explore key aspects of HAT, addressing questions related to education, performance optimization, ethics, and trust, while also incorporating foundational theories, methodologies, and system design considerations.

The first webinar will provide an overview of the current state of HAT, examining what it means to work alongside AI teammates and how to prepare individuals for these roles. Where are we now? Where are we headed? This session will lay the groundwork by reviewing key theories and identifying emerging opportunities and challenges in the field. As AI systems transition from passive tools to active collaborators, AI can play various roles—mentor, coach, assistant, or peer—so this session will also examine the cognitive and behavioral implications of these interactions. Key questions to be addressed include:

- What level of autonomy is appropriate?
- What responsibilities should be allocated to AI versus humans?
- How can we design AI teammates that enhance human decision-making and performance?

Understanding these foundational questions is essential to designing effective, ethical, and trustworthy human-AI teams. Join us as we explore the evolving landscape of human-AI teaming and the future of collaboration.

WEDNESDAY, MAY 28, 2025, 1:00-2:30 PM ET

1:00 **Welcoming Remarks and Introductions**

Fred Oswald, BOHSI Chair; Rice University & Emanuel Robinson, BOHSI Board Director

1:00–2:00 **Future Trajectories of Human-AI Collaboration and Teaming**

Session Moderator(s):

Nathan McNeese, BOHSI Member, Professor of Human-Centered Computing and Director of the Center for Human-AI Interaction, Collaboration, & Teaming, Clemson University

Panelists:

Michael Muller, BOHSI Member, Senior Research Scientist, IBM

Thomas Malone, Patrick J. McGovern (1959) Professor of Management and Director of the Center for Collective Intelligence, MIT

Nancy Cooke, Human Systems Engineering Professor, Arizona State University

2:00-2:30 **Moderator Led Q&A**

2:30 **Webinar Adjourns**