

AGENDA

Committee on Pathways to Doctoral Degrees in Computing

Meeting 5

April 11, 2023

Virtual

<https://vimeo.com/event/3258834>

MEETING OBJECTIVES

- Discuss recent NASEM report on Transforming Trajectories of Women of Color in Tech to provide context to the study topic
- Discuss the impact of immigration, socioeconomic status, gender, and degree level on workforce trends in computing and broader science and engineering fields

Tuesday, April 11, 2023

OPEN SESSION

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| 6:00 pm | Transforming Trajectories for Women of Color in Tech (2022) National Academies of Science, Engineering, and Medicine Report → Valerie Taylor, NASEM Study Chair, Mathematics and Computer Division Director, Distinguished Fellow, Argonne National Laboratory |
| 6:30 pm | STEM Workforce, Immigration, and Innovation → Jennifer Hunt, Professor of Economics, Rutgers University |
| 7:00 pm | Impact of Socioeconomic Status and Gender on STEM Workforce → Anna Stansbury, Assistant Professor of Work and Organization Studies, MIT Sloan School of Management |
| 7:30 pm | Computer Science and Information Technology Labor Markets → Prasanna (Sonny) Tambe, Associate Professor of Operations, Information, and Decisions, Wharton School, University of Pennsylvania |
| 8:00 pm | Adjourn Meeting |

SPEAKER BIOGRAPHIES

Valerie Taylor is the director of the Mathematics and Computer Science Division. She received her Ph.D. in electrical engineering and computer science from the University of California, Berkeley, in 1991. She then joined the faculty in the Electrical Engineering and Computer Science Department at Northwestern University, where she was a member of the faculty for 11 years. In 2003, she joined Texas A&M, where she served as head of the computer science and engineering department and senior associate dean of academic affairs in the College of Engineering and a Regents Professor and the Royce E. Wisenbaker Professor in the Department of Computer Science. Her research is in the area of performance analysis and modeling of parallel, scientific applications. Currently, she is focused on the areas of performance analysis, power analysis and resiliency. Valerie Taylor is a fellow of IEEE and ACM.

Jennifer Hunt is Professor of Economics at Rutgers University. From 2013–2015, while on leave from Rutgers, she served first as Chief Economist of the U.S. Department of Labor, then as Deputy Assistant Secretary for Microeconomic Analysis at the U.S. Department of the Treasury. Prior to joining Rutgers in 2011, she held positions at McGill University, the University of Montreal, and Yale University. Hunt is a Research Associate at the National Bureau of Economic Research in Cambridge, Massachusetts and at the University of Sydney School of Economics, and a Research Fellow at the Centre for Economic Policy Research in London. Her current research focuses on the geographic diffusion of AI, while past research has also encompassed immigration, wage inequality, unemployment, the science and engineering workforce, the transition from communism, crime, and corruption. She received her Ph.D. in Economics from Harvard and her Bachelor's in Electrical Engineering from the Massachusetts Institute of Technology.

Anna Stansbury is an Assistant Professor in Work and Organization Studies at MIT Sloan and on the core faculty of MIT's Institute for Work and Employment Research. She is also a Nonresident Senior Fellow at the Peterson Institute for International Economics and an Affiliated Scholar at the Stone Center on Socio-Economic Inequality at CUNY Graduate Center. She has a PhD in Economics from Harvard, a Master's in Public Policy from Harvard Kennedy School, and a BA in Economics from Cambridge.

Prasanna (Sonny) Tambe is an Associate Professor of Operations, Information and Decisions at the Wharton School at the University of Pennsylvania. His research focuses on the economics of technology and labor. Recent research projects focus on 1) understanding how firms compete for software developers, 2) how software engineers choose technologies in which to specialize, and 3) how AI is transforming HR management. His research has been published or is forthcoming in a number of academic journals including Management Science, Information Systems Research, MIS Quarterly, The Review of Financial Studies, Industrial and Labor Relations Review, Communications of the ACM, and Information Economics and Policy and it has been supported by the Alfred P. Sloan Foundation. His research has also won a number of awards, including the Best Published Paper in Information Systems Research and two papers have been nominees for the Best Published IS Paper in Management Science. He currently serves on the editorial board of Management Science and in the past, has served on the editorial board of Information Systems Research. Professor Tambe received his S.B. and M.Eng. in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology and his Ph.D. in Managerial Science and Applied Economics from the Wharton School of the University of Pennsylvania.