NATIONAL ACADEMIES Sciences Engineering Medicine

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AGENDA

Committee on Pathways to Doctoral Degrees in Computing

Meeting 7
May 9, 2023
Virtual
https://vimeo.com/event/3381094

MEETING OBJECTIVES

- Discuss faculty recruitment, hiring, and retention trends in computing and broader science and engineering fields
- Discuss the impact of current immigration policy on international students following degree receipt

Tuesday, May 9, 2023

OPEN SESSION

6:00 pm	Social Inequalities in Academic Hiring → Daniel Larremore, University of Colorado Boulder, College of Engineering and Applied Science, Assistant Professor of Computer Science
6:30 pm	Industry Hiring Needs and Academic/Industry Collaboration → Gabriela Cruz Thompson, Intel Corporation, Intel Labs, Director of University Research Collaboration and Research Manager
7:00 pm	Trends in Industry Hiring and Need for Computer Science PhDs → Manuela Veloso, JP Morgan Chase, Head AI Research; Carnegie Mellon University, Herbert A. Simon University Professor Emerita

CLOSED SESSION

7:30 pm	Closed Session Begins
8:00 pm	Adjourn Meeting

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SPEAKER BIOGRAPHIES

Daniel Larremore is an Associate Professor in the Department of Computer Science and the BioFrontiers Institute at the University of Colorado Boulder. He is also an affiliate of the Department of Applied Mathematics at the University of Colorado Boulder, and is a member of the external faculty of the Center for Communicable Disease Dynamics at the Harvard T. H. Chan School of Public Health. His research develops mathematical methods using novel combinations of networks, dynamical systems, and statistical inference to solve problems in two main areas: infectious disease epidemiology and computational social science. Prior to joining the University of Colorado faculty, he was an Omidyar Fellow at the Santa Fe Institute 2015-2017 and a post-doctoral fellow at the Harvard T.H. Chan School of Public Health 2012-2015. He obtained his Ph.D. in Applied Mathematics from the University of Colorado Boulder in 2012, and holds an undergraduate degree in Chemical Engineering from Washington University in St. Louis. In 2022, he received the Alan T. Waterman Award from the National Science Foundation.

Gabriela Cruz Thompson is the Director of University Research & Collaboration in Intel Labs at Intel Corporation. In this role, she and her team identify and fund critical large and medium scale research at leading universities world-wide. She also currently serves as a member of the Advisory Committee to the Computer and Information Science and Engineering (CISE) directorate at the National Science Foundation. Previously, Ms. Thompson served as the Chief of Staff at Intel Labs and as a Technical Assistant to Intel's Chief Technology Officer. Ms. Thompson has held a number of other roles in the company's manufacturing facilities during her 20+ year career at Intel. She earned a master's degree in Materials Science and Engineering at Arizona State University and a Chemical Engineering Degree from the University of Costa Rica.

Manuela Veloso is Head of J.P. Morgan Chase AI Research and Herbert A. Simon University Professor Emerita at Carnegie Mellon University, where she was previously Faculty in the Computer Science Department and Head of the Machine Learning Department. Her recent interests are in Artificial Intelligence (AI), Symbiotic Human-Robot Autonomy, Continuous Learning Systems, and AI in Finance. She is past President of the Association for the Advancement of Artificial Intelligence (AAAI), and the co-founder and a past President of the RoboCup Federation. In her career she has received numerous awards and honors, including: National Science Foundation CAREER Award, Allen Newell Medal for Excellence in Research, Radcliffe Fellow, Einstein Chair Professor of the Chinese Academy of Sciences, and the ACM/SIGART Autonomous Agents Research Award. Veloso is a Fellow of AAAI, AAAS, ACM, and IEEE. She was elected in 2022 to the National Academy of Engineering for her "contributions to artificial intelligence and its applications in robotics and the financial service industry."