

**Dr. Nick Nystrom** (PhD 1992, Jordan) is Interim Director at the Pittsburgh Supercomputing Center (PSC), a national computing center founded 1986 that is a joint effort of Carnegie Mellon University and the University of Pittsburgh. Nick directs architecture, development, deployment, and operation of pioneering computing technologies, and he provides top-level direction to PSC's science and technology groups including Artificial Intelligence & Big Data, Biomedical Applications, Public Health Applications, User Support for Scientific Applications, Facilities Technology, Networking, and Security. Prior to stepping up to Interim Director, Nick served as Sr. Director of Research. Nick is also a Visiting Research Physicist in the Carnegie Mellon Department of Physics.

Nick is architect, principal investigator (PI), and project director (PD) for "Bridges", PSC's flagship platform that was the first to successfully converge HPC, AI, and Big Data. He is also PI for the Data Exacell, a research pilot for enabling high performance data analytics on novel storage; co-PI for Open Compass, which brings emerging AI technologies to important problems in research; co-I for the Center for Causal Discovery, an NIH Big Data to Knowledge (BD2K) Center of Excellence; and co-I for Big Data for Better Health, which applies machine learning to lung and breast cancer research.

Nick's research interests include applications of machine learning to big data (particularly in the life sciences, including genomics, imaging, text, GIS, and social networks) and for augmenting simulation, hardware and software architecture, graph analytics, software engineering for extreme scalability, performance modeling and prediction, impacts of programming models and languages on productivity and efficiency, information visualization, and computational chemistry.