

EDUCATIONAL BACKGROUND

Degree	Year	University	Field
Ph.D.	2000	The Ohio State University	Computer and Information Science
M.S.	1997	The Ohio State University	Computer and Information Science
B.S.	1995	Illinois Institute of Technology	Computer Science

EMPLOYMENT HISTORY

Title	Organization	Years
Professor	College of Computing Georgia Institute of Technology	2012–
Associate Professor	College of Computing Georgia Institute of Technology	2006–2012
Assistant Professor	College of Computing Georgia Institute of Technology	2000–2006
Research Assistant	Department of Computer and Information Science The Ohio State University	1995–2000

CURRENT FIELDS OF INTEREST

Areas: Computer networking in general and *network algorithmics* in particular.

Network Algorithmics. Network Algorithmics are techniques and principles behind the software and hardware systems running on high-speed Internet routers and measurement and security devices. This research is important because network link speeds have increased exponentially over the past two decades to accommodate rapidly growing number of Internet users and applications, and sophisticated network algorithmics are needed to forward, measure, monitor, and secure traffic streams at such speeds. Network algorithmics research is challenging because each packet has only a few nanoseconds of processing time in a high-speed router and every “algorithmic” performed on a packet has to finish well within this time frame. This research is highly interdisciplinary, drawing techniques from computer architecture, hardware design, data structure and algorithms, theoretical computer science, queuing theory, probability theory, information theory, and statistics.