

**RESEARCH INTERESTS**

Software engineering, data science, programming languages and compilers, software construction and verification for data-driven software, data-driven SE, data infrastructure design, reasoning about concurrent systems, modularity, modular reasoning, specification and verification

**EDUCATION**

*Aug. 2005* PhD in Computer Science, The University of Virginia, Charlottesville, VA, USA

*Jan. 2004* M.S. in Computer Science, The University of Virginia, Charlottesville, VA, USA

*June 2000* B.Tech. in Computer Sc. and Eng., Indian Institute of Technology, Varanasi, India

**ACADEMIC POSITIONS**

*Aug. 2017–present* Professor-in-charge, ISU Data Science Program, Iowa State University

*Aug. 2016–present* Professor, Department of Computer Science, Iowa State University

*Aug. 2018–Dec. 2018* Visiting Professor, University of Bristol, Bristol, UK

*Aug. 2017–Dec. 2017* Visiting Professor, Harvard University, Cambridge, MA

*Aug. 2011–July 2016* Associate Professor, Department of Computer Science, Iowa State University

*May. 2012–Jun. 2012* Visiting Professor, The University of Texas, Austin, TX

*Aug. 2005–July 2011* Assistant Professor, Department of Computer Science, Iowa State University

**SELECTED HONORS, INVITED TALKS, AWARDS, AND PATENTS**

*2018-19 Fulbright US-UK Scholar*

*2017 ACM Distinguished Member (awarded ACM Senior Member in 2014)*

*2016-17 Exemplary Mentor of Junior Faculty, Iowa State University*

*2016 Kingland Professorship*

*2012 Big-12 Fellowship*

*2010 LAS Early Achievement in Research Award*

*2009 US National Science Foundation (NSF) CAREER Award*

**SELECTED GRANTS (out of a total of \$6.57M as PI or CoPI)**

*Jun. 2015–May. 2020* PI, “Boa: A Collaboratory for Studying Software and its Evolution at a Large Scale”, NSF CNS-15-13263, \$1,426,917

*July 2015–June 2019* PI, “Inferring Software Specifications from Open Source Repositories by Leveraging Data and Collective Community Expertise”, NSF CCF-15-18897, \$1,604,843.

*Jan. 2017–Dec. 2019* Co-PI, “MRI: Acquisition of a HPC System: Computing for Sustainability”, NSF CNS-17-26447, \$678,214

*August 2014–June 2018* PI, “Capsule-oriented Programming”, NSF CCF-14-23370, \$450,098

*July 2009–June 2016* PI, “CAREER: On Mutualism of Modularity and Concurrency”, NSF CCF-08-46059, \$425,000

**SELECTED EDITORIAL SERVICE AND CONFERENCE ORGANIZATION**

*2020* General Chair, *ACM SIGPLAN SPLASH/OOPSLA Conference*

*2017–present* Associate Editor, *IEEE Transactions on Software Engineering*

*2015–present* Associate Editor, *Software Engineering Notes*

*2018–present* Program Evaluator, *ABET Computing Accreditation Commission (CAC)*

*2007–present* Steering Committee, the workshop on Virtual Machines and Intermediate Languages (VMIL)

*2016 and 2017* Program Committee Co-chair, *IEEE COMPSAC SETA Symposium*

*2016–present* Founder and Co-organizer, *the Midwest Big Data Summer School*

*2016–2018* Steering Committee: the Midwest Big Data Hub (MBDH)