CS Faculty Research Interests

**Peter Anderson**  
Professor Emeritus  
Ph.D.  
Massachusetts Institute of Technology  
- neural networks  
- genetic algorithms  
- pattern recognition  
- languages and compilers

**Reynold Bailey**  
Associate Professor  
Ph.D.  
Washington University  
- applied perception in graphics  
- computer graphics  
- interactive techniques

**Ivona Bezakova**  
Associate Professor  
Ph.D.  
University of Chicago  
- design and analysis of algorithms  
- Markov chains  
- counting and sampling problems  
- discrete random structures  
- planar graph algorithms

**Hans-Peter Bischof**  
Professor  
Ph.D.  
University of Osnabrück  
- visualization  
- high performance file systems  
- distributed systems  
- languages

**T.J. Borrelli**  
Senior Lecturer  
MS  
Rochester Institute of Technology  
- machine learning  
- artificial intelligence  
- genetic algorithms  
- game theory  
- scripting languages  
- computer science education

**Jeremy Brown**  
Lecturer  
MS  
Florida Institute of Technology  
- networking  
- OS development & system programming  
- mobile platform development
Zack Butler
Associate Professor
Ph.D.
Carnegie Mellon University

- robotics for CS education
- cooperative robotics
- distributed systems

Roxanne Canosa
Associate Professor
Ph.D.
Rochester Institute of Technology

- computer vision
- cognitive modeling
- image understanding
- artificial intelligence
- neural networks

Warren R. Carithers
Associate Professor
MS
University of Kansas

- operating systems
- computer organization and architecture
- computer graphics
- systems software
- programming languages
- computers and music
- security
- ethics
- privacy

Aaron Deever
Lecturer
Ph.D.
Cornell University

- algorithms
- computer science education

Robert Duncan
Lecturer
MS
Rochester Institute of Technology

- computer organization
- architecture
- real-time systems
- systems software

Henry A. Etlinger
Associate Professor
MS
Syracuse University

- data management
- software engineering
- technical communications
- computer science education
Matthew Fluet
Associate Professor
Ph.D.
Cornell University

- programming languages
- functional programming
- compiler construction
- parallelism and concurrency
- type systems
- program analysis

Roger Gaborski
Professor Emeritus
Ph.D.
University of Maryland

- computer vision
- neural networks
- genetic algorithms
- machine learning
- artificial intelligence
- evolutionary computation

Joe Geigel
Associate Professor
DSC
George Washington University

- computer graphics
- virtual and augmented reality
- interdisciplinary curriculum development
- affective computing
- multimedia performance
- user interface
- image processing
- genetic algorithms
- algorithmic sound synthesis

James Heliotis
Professor
Ph.D.
University of Rochester

- programming languages
- software development tools
- aspect-oriented programming
- software design techniques
- software architecture styles
- smart power
- applications in music

Edith Hemaspaandra
Professor
Ph.D.
University of Amsterdam

- computational social choice
- computational complexity
- algorithms
- logic in computer science
- computational politics
- computational linguistics
Christopher M. Homan  
Associate Professor  
Ph.D.  
University of Rochester  
- social-computational systems  
- social network analysis  
- computer supported cooperative work  
- theory of computing

Trudy Howles  
Professor Emeritus  
Ph.D.  
Nova Southeastern University  
- languages  
- software engineering  
- software quality  
- software process improvements  
- interface design  
- learning methods

Alan Kaminsky  
Professor  
MS  
University of Michigan  
- parallel computing  
- cryptography  
- computational science  
- distributed systems  
- ad hoc networking  
- security

Fereydoun Kazemian  
Associate Professor  
Ph.D.  
Kansas State University  
- artificial intelligence  
- expert systems  
- databases  
- software engineering  
- user interfaces  
- functional programming

Mohan Kumar  
Professor and Chair  
Ph.D.  
Indian Institute of Science  
- mobile and pervasive computing  
- opportunistic networking and computing  
- sensor systems  
- parallel and distributed systems

Minseok Kwon  
Associate Professor  
Ph.D.  
Purdue University  
- computer networks  
- distributed systems  
- mobile computing
Xumin Liu
Associate Professor
Ph.D.
Virginia Tech.

- data management
- data mining and machine learning
- service computing and web services
- social computing
- semantic web

Wiley McKinzie
Professor
MS
State University of New York at Buffalo

- evolution of computing

Arthur Nunes-Harwitt
Lecturer
Ph.D.
Rochester Institute of Technology

- programming languages
- artificial intelligence
- computer algebra

Peizhao Hu
Assistant Professor
Ph.D.
University of Queensland

- mobile and pervasive computing
- applied cryptography: homomorphic encryption
- adaptive wireless networks

Stanislaw Radziszowski
Professor
Ph.D.
University of Warsaw

- Ramsey numbers, Folkman numbers
- Ramsey theory
- cryptography
- algorithms
- complexity theory
- combinatorial computing
- extremal graph theory

Rajendra K. Raj
Professor
Ph.D.
University of Washington

- secure computing: coding, systems and data management
- critical infrastructure protection
- distributed and mobile computing with the Cloud
- software design, architecture and reuse
Leon Reznik  
Professor  
Ph.D.  
Petersburg Polytechnic Institute  
- data quality and security evaluation  
- intrusion detection  
- intelligent system design  
- computer security measurement and testing

Carol Romanowski  
Associate Professor  
Ph.D.  
University of Buffalo  
- big data/data science  
- critical infrastructure protection  
- data mining/machine learning

Ben Steele  
Lecturer  
MS  
Rochester Institute of Technology  
- software design  
- system software  
- programming languages  
- mobile applications

Sean Strout  
Lecturer  
MS  
Rochester Institute of Technology  
- computer graphics  
- real-time systems  
- programming languages

Paul Tymann  
Professor  
MS  
Syracuse University  
- networking  
- distributed computing  
- parallel computing  
- bioinformatics  
- operating systems  
- data communications  
- computer organization

Philip White  
Lecturer  
MS  
Rochester Institute of Technology  
- computer organization and architecture  
- computer graphics  
- genetic algorithms

Richard Zanibbi  
Associate Professor  
Ph.D.  
Queen’s University  
- pattern recognition and machine learning  
- document recognition  
- human computer interaction  
- programming languages  
- information retrieval