Software Engineering / Software and Security Engineering

Department Information

- **Department Chair:** Simone Ludwig, Ph.D.
- **Program Coordinator:** Saeed Salem, Ph.D.
- **Department Location:** 258 QBB
- **Department Phone:** (701) 231-8562
- **Department Email:** gradinfo@cs.ndsu.edu
- **Department Web Site:** ndsu.edu/cs/ (http://ndsu.edu/cs/)
- **Application Deadline:**
  - February 1 for fall admission; September 1 for spring admission* No summer admission for any Software Engineering Program
- **Credential Offered:**
  - Ph.D., M.S., M.S.E, Certificate
- **Test Requirement:**
  - GRE (waived for fall 2022 applicants)
- **English Proficiency Requirements:**
  - TOEFL ibt 79; IELTS 6.5; Duolingo 105

Zahid Anwar, Ph.D.
University of Illinois at Urbana-Champaign, 2008
Research Interests: Cybersecurity Policy and Law, Artificial Intelligence and Machine Learning

Anne Denton, Ph.D.
University of Mainz, 1996
Research Interests: Data Mining, Bioinformatics, Scientific Informatics, Databases, Geospatial Data, Cloud Computing

Jun Kong, Ph.D.
University of Texas, Dallas, 2005
Research Interests: Human Computer Interaction, Mobile Computing, Software Engineering

Pratap Kotala, Ph.D.
North Dakota State University, 2015
Research Interests: Software Engineering

Juan (Jen) Li, Ph.D.
University of British Columbia, 2008
Research Interests: Smart and Connected Health, Semantic Web Technologies, Internet of Things (IoT)

Lu Liu, Ph.D.
University of Texas San Antonio, 2017
Research Interests: Bioinformatics, Data Mining, Machine Learning, Data Science

Simone Ludwig, Ph.D.
Brunel University, 2004
Research Interests: Swarm Intelligence, Evolutionary Computation, Deep Neural Networks, Fuzzy Reasoning, Machine Learning

Kenneth Magel, Ph.D.
Brown University, 1977
Research Interests: Software Engineering, Human-Computer Interfaces, Software Complexity, and Software Design

M. Zubair Malik, Ph.D.
University of Texas at Austin, 2014
Research Interests: Program Analysis, Automated Program Repair, Secure Software Development, Software Verification-Validation and Testing, Software Systems (especially large scale Distributed Systems for Data science and Machine Learning), Formal Methods, Application of Artificial Intelligence in Program Analysis

**Oksana Myronovych, Ph.D.**
North Dakota State University, 2009
Research Interests: Software Engineering

**Saeed Salem, Ph.D.**
Rensselaer Polytechnic Institute, 2009
Research Interests: Bioinformatics, Machine Learning and Data Mining

**Jeremy Straub, Ph.D.**
University of North Dakota, 2015
Research Interests: Multi-tier Mission Architecture & Control, Autonomous Data Link Reduction, Autonomous Vehicle Control, Machine Vision, Super Resolution

**Vasant Ubhaya, Ph.D.**
University of California-Berkeley, 1971
Research Interests: Algorithm Analysis, Approximation and Optimization

**Changhui Yan, Ph.D.**
Iowa State University, 2005
Research Interests: Bioinformatics, Computational Biology, Genomics, Machine Learning, Data Mining, Big Data, Cloud Computing

**Affiliate Faculty**

**Kendall Nygard, Ph.D.**
Virginia Polytechnic Institute and State University, 1978

**Gursimran Walia, Ph.D.**
Mississippi State University, 2009

**Otto Borchert, Ph.D.**
North Dakota State University, 2015