DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

http://www.cse.tamu.edu/

Head: Scott Schaefer

Graduate Advisor: Duncan M. "Hank" Walker

The Department of Computer Science and Engineering offers graduate studies leading to the degrees of Master of Computer Science, Master of Science in computer science and Doctor of Philosophy. In computer engineering, the Departments of Computer Science and Engineering and Electrical and Computer Engineering offer a joint program leading to the degrees of Master of Engineering, Master of Science and Doctor of Philosophy.

Advanced study in computer science is designed to provide the skills to design and utilize modern computer systems. The field of computer science is rapidly changing and expanding, generating a need for computer scientists in the burgeoning industry. The Department of Computer Science and Engineering is meeting these needs with advanced study in computer science.

Areas of study in computer science and engineering:

- Algorithms and Theory
- Artificial Intelligence, Intelligent Systems, Machine Learning, Natural Language Processing
- Bioinformatics, Computational Biology
- Computational Science
- Computer Architecture
- Computer Science Education
- Computer Vision
- Cyber-Physical Systems
- Cybersecurity
- Data Science
- Databases, Data Mining, Information Retrieval Systems
- Digital Humanities
- Electronic Design Automation and VLSI
- Embedded Systems
- Gaming
- Graphics, Visualization and Computational Fabrication
- Health
- Human-Centered Systems
- Human-Computer Interaction
- Networks
- Parallel and Distributed Computing
- Programming Languages, Compilers
- Robotics, Human-Robot Interaction
- Software and Software Engineering
- Systems

Special laboratory facilities are available to graduate students in:

- Artificial Intelligence
- Brain Networks
- Center for Information Assurance and Security
- Center for Robot-Assisted Search and Rescue
- Center for the Study of Digital Libraries
- Distributed AI Robotics Lab
- Distributed Computing Group
- Electronic Design Automation Lab
- Embedded Systems and Codesign Group
- Geometry and Graphics Group
- High Performance Computing Laboratory
- Information Innovation Lab
- Interface Ecology Laboratory
- Internet Research Lab
- Laboratory for Embedded Networked Sensor Systems
- Laboratory for Software Research
- NetBot Laboratory
- Perception, Sensing and Instrumentation Lab
- Real-Time Distributed Systems
- Real-Time Systems Group
- Secure Communication and Computer Systems Laboratory
- Sketch Recognition Lab
- Software and Systems Group

There is no foreign language requirement for the PhD program in computer science.

Faculty

Ahmed, Sarker T, Instructional Assistant Professor
Computer Science & Engineering
PHD, Texas A&M University, 2016

Akleman, Ergun, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 1992

Bettati, Riccardo, Professor
Computer Science & Engineering
PHD, University of Illinois, 1994

Carlisle, Martin, Professor of the Practice
Computer Science & Engineering
PHD, Princeton University, 1993

Caverlee, James B, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 2007

Chaspari, Theodora, Assistant Professor
Computer Science & Engineering
PHD, University of Southern California, 2017

Chen, Jianer, Professor
Computer Science & Engineering
PHD, Columbia University, 1987

Choe, Yoonsuck, Professor
Computer Science & Engineering
PHD, The University of Texas at Austin, 2001

Da Silva, Dilma M, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 1997

Davis, Timothy A, Professor
Computer Science & Engineering
PHD, University of Illinois at Urbana-Champaign, 1989

Dewitte, Paula S, Professor of the Practice
Computer Science & Engineering
JD, St. Mary's University School of Law, 2008
PHD, Texas A&M University, 1989

Duffield, Nicholas G, Professor
Computer Science & Engineering
PHD, Queen Mary College, Univ. of London, 1987

Furuta, Richard K, Professor
Computer Science & Engineering
PHD, University of Washington, 1986

Garay, Juan A, Professor
Computer Science & Engineering
PHD, The Pennsylvania State University, 1989

Goldberg, Daniel W, Associate Professor
Computer Science & Engineering
PHD, University of Southern California, 2010

Gratz, Paul V, Professor
Computer Science & Engineering
PHD, The University of Texas at Austin, 2008

Gu, Guofei, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 2008

Gutierrez-Osuna, Ricardo, Professor
Computer Science & Engineering
PHD, North Carolina State University, 1998

Hamilton, John, Professor
Computer Science & Engineering
PHD, Texas A&M University, 1996

Hammond, Tracy A, Professor
Computer Science & Engineering
PHD, Massachusetts Inst of Technology, 2007

Houngninou, David Kebo, Instructional Assistant Professor
Computer Science & Engineering
PHD, Southern Methodist University, 2017

Hu, Jiang, Professor
Computer Science & Engineering
PHD, University of Minnesota, 2001

Hu, Xia, Associate Professor
Computer Science & Engineering
PHD, Arizona State University, 2015

Huang, Ruihong, Associate Professor
Computer Science & Engineering
PHD, University of Utah, 2014

Huang, Shaoming, Associate Professor
Computer Science & Engineering
PHD, Hong Kong University of Science and Technology, 2012

Ioerger, Thomas R, Professor
Computer Science & Engineering
PHD, University of Illinois, 1996

Jafari, Roozbeh, Professor
Computer Science & Engineering
PHD, University of California, Los Angeles, 2006

Ji, Shuiwang, Professor
Computer Science & Engineering
PHD, Arizona State University, 2010

Jiang, Anxiao, Professor
Computer Science & Engineering
PHD, California Institute of Technology, 2004

Jimenez, Daniel A, Professor
Computer Science & Engineering
PHD, The University of Texas at Austin, 2002

Kerne, Andrew, Professor
Computer Science & Engineering
PHD, New York University, 2001

Keyser, John C, Professor
Computer Science & Engineering
PHD, University of North Carolina at Chapel Hill, 2000

Khademi Kalantari, Nima, Assistant Professor
Computer Science & Engineering
PHD, University of California Santa Barbara, 2015

Kim, Eun J, Associate Professor
Computer Science & Engineering
PHD, Pennsylvania State University, 2003

Kim, Jeeeun, Assistant Professor
Computer Science & Engineering
PHD, University of Colorado - Boulder, 2019

Klappenecker, Andreas, Professor
Computer Science & Engineering
PHD, Universitat Karlsruhe, 1998

Kum, Hye Chung, Professor
Computer Science & Engineering
PHD, University of North Carolina at Chapel Hill, 2004

Lee, Hyunyoung, Senior Lecturer
Computer Science & Engineering
PHD, Texas A&M Univeristy, College Station, 2021
PHD, Texas A&M University, 2001

Leyk, Teresa S, Senior Lecturer
Computer Science & Engineering
PHD, Australian National University, 1998

Liu, Jyh C, Professor
Computer Science & Engineering
PHD, University of Michigan at Ann Arbor, 1989

Loguinov, Dmitri, Professor
Computer Science & Engineering
PHD, City University of New York, 2002

Lupoli, Shawn V, Instructional Assistant Professor
Computer Science & Engineering
MS, Towson University, 2004

Mahapatra, Rabinarayan, Professor
Computer Science & Engineering
PHD, Indian Institute of Technology, Kharagpur, 1992

McGuire, Timothy, Instructional Professor
Computer Science & Engineering
PHD, Texas A&M University, 1991

Moore, John Michael, Instructional Assistant Professor
Computer Science & Engineering
PHD, Texas A&M University, 2013
PHD, Texas A&M University, 2007

Mortazavi, Jack B, Assistant Professor
Computer Science & Engineering
PHD, University of California at Los Angeles, 2014

Murphy, Robin R, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 1992

Muzahid, Abdullah, Assistant Professor
Computer Science & Engineering
PHD, University of Illinois at Urbana-Champaign, 2012

Narayanan, Krishna R, Professor
Computer Science & Engineering
PHD, Georgia Institute of Technology, 1998

Nguyen, Khanh, Assistant Professor
Computer Science & Engineering
PHD, University of California, Los Angeles, 2019

Pearce, Olga, Adjunct Associate Professor of Practice
Computer Science & Engineering

Pearce, Roger, Adjunct Associate Professor of Practice
Computer Science & Engineering

Qian, Xiaoning, Associate Professor
Computer Science & Engineering
PHD, Yale University, 2005

Ragsdale, Daniel J, Professor of the Practice
Computer Science & Engineering
PHD, Texas A&M University, 2001

Ritchey, Philip C, Instructional Associate Professor
Computer Science & Engineering
PHD, Purdue University, 2015

Rojas, Joseph, Professor
Computer Science & Engineering
PHD, University of California at Berkeley, 1995

Sarin, Vivek, Associate Professor
Computer Science & Engineering
PHD, University of Illinois, 1997

Saxena, Nitesh, Professor
Computer Science & Engineering
PHD, University of California - Irvine, 2006

Schaefer, Scott D, Professor
Computer Science & Engineering
PHD, Rice University, 2006

Sharon, Guni, Assistant Professor
Computer Science & Engineering
PHD, Ben-Gurion University, 2015

Shell, Dylan A, Associate Professor
Computer Science & Engineering
PHD, University of Southern California, 2008

Shipman III, Frank M, Professor
Computer Science & Engineering
PHD, University of Colorado, 1993

Song, Dezhen, Professor
Computer Science & Engineering
PHD, University of California at Berkeley, 2004

Stoleru, Radu, Professor
Computer Science & Engineering
PHD, University of Virginia, 2007

Sueda, Shinjiro, Assistant Professor
Computer Science & Engineering
PHD, University of British Columbia, 2010

Sze, Sing H, Associate Professor
Computer Science & Engineering
PHD, University of Southern California, 2000

Taele, Paul, Instructional Assistant Professor
Computer Science & Engineering
PHD, Texas A&M University, 2019

Thomas, Shawna, Instructional Assistant Professor
Computer Science & Engineering
PHD, Texas A&M University, 2010

Tsai, Chia-Che, Assistant Professor
Computer Science & Engineering
PHD, Stony Brook University, 2017

Tyagi, Aakash, Professor of the Practice
Computer Science & Engineering
PHD, University of Louisiana, 1993

Veldt, Luke, Assistant Professor
Computer Science & Engineering
PHD, Purdue University, 2019

Walker, Duncan M, Professor
Computer Science & Engineering
PHD, Carnegie Mellon University, 1986

Wang, Wenping, Professor
Computer Science & Engineering
PHD, University of Alberta, 1992
PHD, University of Alberta, Canada, 1992

Ward, Ronald G, Senior Lecturer
Computer Science & Engineering
PHD, Texas A&M University, 1973

Welch, Jennifer L, Professor
Computer Science & Engineering
PHD, Massachusetts Institute of Technology, 1988

Yum, Ki H, Senior Lecturer
Computer Science & Engineering
PHD, The Pennsylvania State University, 2002

Zhang, Yupeng, Assistant Professor
Computer Science & Engineering
PHD, University of Maryland - College Park, 2018

Masters

- Master of Computer Science in Computer Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/mcs/)
- Master of Engineering in Computer Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/engineering-meng/)
- Master of Science in Computer Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/engineering-ms/)
- Master of Science in Computer Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/ms/)

Doctoral

- Doctor of Philosophy in Computer Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/engineering-phd/)
- Doctor of Philosophy in Computer Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/computer-science/phd/)