DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Computing devices are all around us and computer algorithms support almost every aspect of our daily activities, decisions, and transactions. Our majors are at the center of these exciting activities; in envisioning new forms of services, in applications to address existing or emerging needs, in formulation and evaluation of algorithms to build the necessary computer and networking systems, and in development of the necessary software infrastructures to deploy the resulting solutions. In this, they rely on skills learned in our degree programs; skills that include algorithm design and analysis, programming languages, computer system design, artificial intelligence and machine learning, graphics, human-computer interaction, and many more. Our graduates are found in a wide range of industries, both public and private, reflecting the ubiquity of computing in society.

The Department of Computer Science and Engineering prepares our students to become computing experts who are equipped to address the many and varying challenges that they will encounter in their careers. We offer three degree programs, which are designed to address a variety of student goals and industry demands.

Mission
The mission of the Department of Computer Science is to develop the human and intellectual resources needed to meet the future technological challenges in the field of computing. This includes developing computer scientists and computer engineers for positions of leadership in industry, government, and academia.

BS in Computer Science
The curriculum in Computer Science is designed to prepare students to enter the rapidly expanding computer field. Curricula and courses are based upon recommendations by the Institute of Electrical and Electronic Engineering Computer Society and the Association for Computing Machinery. The Computer Science program is accredited by the Computing Accreditation Commission of ABET, www.abet.org.

BS in Computer Engineering
The Computer Engineering curricula provide a balanced view of hardware, software, hardware-software trade-offs, analysis, design, and implementation techniques. It is a dynamic and broadly interdisciplinary field that continues to experience rapid growth that impacts every area of human endeavor. The Computer Engineering program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

BA in Computing
The Bachelor of Arts in Computing allows students to couple foundational skills in computing, both theoretical and practical, with a sound knowledge of an intersecting area of interest.

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

Andersen, Flemming, Adjunct Professor of Practice
Computer Science & Engineering
PHD, Technical University of Denmark, 1995

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

Botacin, Marcus, Visiting Assistant Professor
Computer Science & Engineering
PHD, Federal University of Paraná (UFPR), 2021

Budimlic, Zoran, Instructional Associate Professor
Computer Science & Engineering
PHD, Rice University, 2001

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

Crawford, Victoria, Assistant Professor
Computer Science & Engineering
PHD, University of Florida, 2022

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

Duysak, Alpaslan, Instructional Associate Professor
Computer Science & Engineering
PHD, Bournemouth University, 2004

Furuta, Richard K, Professor Emeritus
Computer Science & Engineering
PHD, University of Washington, 1986
Garay, Juan A, Professor
Computer Science & Engineering
PHD, The Pennsylvania State University, 1989

Garcia, Christiana, Instructional Assistant Professor
Computer Science & Engineering
PHD, Texas A&M University, 2022

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

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

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

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

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

Krishnamurthy, Vinayak, Associate Professor
Computer Science & Engineering
PHD, Purdue University, 2015

Kuhnle, Alan, Assistant Professor
Computer Science & Engineering
PHD, University of Florida, 2018

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

Kumar, Sandeep, Associate Professor of Practice
Computer Science & Engineering
PHD, Purdue University, 1995

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

Leyk, Teresa S, Instructional Professor
Computer Science & Engineering
PHD, Australian National University, 1998

Lightfoot, Robert H, Associate Professor of the Practice
Computer Science & Engineering
MS, Southern Methodist University, 1995

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

McNamara, Ann, Associate Professor
Computer Science & Engineering
PHD, University of Bristol, UK, 2000

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

O'Kane, Jason, Professor
Computer Science & Engineering
PHD, University of Illinois, Urbana-Champaign, 2007

Pearce, Olga, Adjunct Associate Professor of Practice
Computer Science & Engineering
PHD, Texas A&M University, 2014

Pearce, Roger, Adjunct Associate Professor of Practice
Computer Science & Engineering
PHD, Texas A&M University, 2013

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

Quinn, Michael D, Associate Professor of the Practice
Computer Science & Engineering
MS, University of Southern California at Los Angeles, 1978

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

Shakkottai, Srinivas, Professor
Computer Science & Engineering
PHD, University of Illinois, 2007

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

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

Shen, Yang, Associate Professor
Computer Science & Engineering
PHD, Boston University, 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

Suenda, 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

Wade, Pauline, Associate Professor of the Practice
Computer Science & Engineering
MS, Columbia University, 1991

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

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

Yang, Tianbao, Associate Professor
Computer Science & Engineering
PHD, Michigan State University, 2012

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

**Majors**

- Bachelor of Arts in Computing (http://catalog.tamu.edu/undergraduate/engineering/computer-science/computing-ba/)
- Bachelor of Science in Computer Engineering (http://catalog.tamu.edu/undergraduate/engineering/computer-science/computer-engineering-bs/)
- Bachelor of Science in Computer Science (http://catalog.tamu.edu/undergraduate/engineering/computer-science-bs/)

**Minors**

- Computer Science Minor (http://catalog.tamu.edu/undergraduate/engineering/computer-science/minor/)
- Game Design and Development Minor (http://catalog.tamu.edu/undergraduate/engineering/computer-science/game-design-development-minor/)