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:

- 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, University of Illinois, 1994

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
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
<th>University and Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Da Silva, Dilma M</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Georgia Institute of Technology, 1997</td>
</tr>
<tr>
<td>Davis, Timothy A</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of Illinois at Urbana-Champaign, 1989</td>
</tr>
<tr>
<td>Dewitte, Paula S</td>
<td>Professor of the Practice</td>
<td>Computer Science &amp; Engineering</td>
<td>St. Mary's University School of Law, 2008</td>
</tr>
<tr>
<td>Duffield, Nicholas G</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Queen Mary College, Univ. of London, 1987</td>
</tr>
<tr>
<td>Furuta, Richard K</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of Washington, 1986</td>
</tr>
<tr>
<td>Goldberg, Daniel W</td>
<td>Associate Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Pennsylvania State University, 1989</td>
</tr>
<tr>
<td>Gratz, Paul V</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>The University of Texas at Austin, 2008</td>
</tr>
<tr>
<td>Gu, Guofei</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Georgia Institute of Technology, 2008</td>
</tr>
<tr>
<td>Gutierrez-Osuna, Ricardo</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>North Carolina State University, 1998</td>
</tr>
<tr>
<td>Hammond, Tracy A</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Massachusetts Inst of Technology, 2007</td>
</tr>
<tr>
<td>Houngninou, David Kebo</td>
<td>Instructional Assistant Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Southern Methodist University, 2017</td>
</tr>
<tr>
<td>Hu, Jiayi</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of Minnesota, 2001</td>
</tr>
<tr>
<td>Hu, Xia</td>
<td>Associate Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Arizona State University, 2015</td>
</tr>
<tr>
<td>Huang, Ruihong</td>
<td>Associate Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of Utah, 2014</td>
</tr>
<tr>
<td>Huang, Shaoming</td>
<td>Associate Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Hong Kong University of Science and Technology, 2012</td>
</tr>
<tr>
<td>Ioerger, Thomas R</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of Illinois, 1996</td>
</tr>
<tr>
<td>Jafari, Roozbeh</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of California, Los Angeles, 2006</td>
</tr>
<tr>
<td>Ji, Shuiwang</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Arizona State University, 2010</td>
</tr>
<tr>
<td>Ji, Shuiwang</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>California Institute of Technology, 2004</td>
</tr>
<tr>
<td>Jimenez, Daniel A</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>The University of Texas at Austin, 2002</td>
</tr>
<tr>
<td>Keyser, John C</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>New York University, 2001</td>
</tr>
<tr>
<td>Khademi Kalantari, Nima</td>
<td>Assistant Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Pennsylvania State University, 2003</td>
</tr>
<tr>
<td>Kim, Eun J</td>
<td>Associate Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of California Santa Barbara, 2015</td>
</tr>
<tr>
<td>Kim, Jeeun</td>
<td>Assistant Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of Colorado - Boulder, 2019</td>
</tr>
<tr>
<td>Klappenecker, Andreas</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>Universitat Karlsruhe, 1998</td>
</tr>
<tr>
<td>Kum, Hye Chung</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of North Carolina at Chapel Hill, 2004</td>
</tr>
<tr>
<td>Lee, Hyunyoung</td>
<td>Senior Lecturer</td>
<td>Computer Science &amp; Engineering</td>
<td>Texas A&amp;M University, 2001</td>
</tr>
<tr>
<td>Leyk, Teresa S</td>
<td>Senior Lecturer</td>
<td>Computer Science &amp; Engineering</td>
<td>Australian National University, 1998</td>
</tr>
<tr>
<td>Liu, Jyh C</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>University of Michigan at Ann Arbor, 1989</td>
</tr>
<tr>
<td>Loguinov, Dmitri</td>
<td>Professor</td>
<td>Computer Science &amp; Engineering</td>
<td>City University of New York, 2002</td>
</tr>
</tbody>
</table>
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, 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

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

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

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

Wang, Wenping, Professor
Computer Science & Engineering
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/)