

The Computer Science Department at UT Dallas is one of the largest in the US with approximately 4,600 students and a distinguished faculty that has won numerous awards.

### Research Highlights

- Six broad areas of research: AI, Cyber Security, Networks, Systems, Theory, Software Engineering.
- Approximately over \$45 Million total external funding over the last 5 years.
- Faculty includes 15 NSF CAREER Award Winners.
- CS Faculty direct 4 research institutes, 6 research centers, and one education/outreach center.
- Prof. Tien Nguyen won his 4<sup>th</sup> ACM SIGSOFT Distinguished Paper award in Software Engineering.
- Prof. Andi Marcus won his 4<sup>th</sup> Most Influential Paper award in the area of Software Engineering.
- Prof. Murat Kantarcioglu received the Technical Achievement Award in Intelligence & Security Informatics (ISI) from the Institute of Electrical and Electronics Engineers (IEEE).
- Prof. B. Prabhakaran's NSF funded project on 3D Immersive Tele-Rehabilitation was chosen by the NSF as one of eight to showcase to US Congressmen & Senators at Capitol Hill.
- Prof. Zygmunt Haas' paper among the top 10 most cited papers in networks on Google Scholar.
- Prof. Gopal Gupta won the 10-year Test of Time Award for his work on coinduction in logic.
- Prof. Hal Sudborough's Paper from 1980 given WG Conference the Test of Time Award.
- Prof. Murat Kantarcioglu's Paper from 2009 given the ACM SACMAT Test of Time Award.
- Prof Latifur Khan Awarded the IEEE Big Data Security Senior Research Award.
- Prof. Bhavani Thuraisingham named a fellow of the Association for Computing Machinery (ACM) and the National Academy of Inventors (NAI).
- CS Dept. ranked #8 in NLP, #5 in Software Engineering, and #7 in Embedded and Real-Time Systems based on data from csrcrankings.org ('10-'20 period).

### Student Numbers/Growth/Education Highlights

- Approximately 4,600 total students (3,629 Undergraduates, 802 Master's Students, 161 PhDs).
- Awarded approximately 610 Bachelors, 554 Masters, and 36 PhDs degrees in 2019-20.
- Ranked #4 nationally for the total number of students, #11 for the number of female students.
- Ranked #11 nationally for the no. of Hispanic students, #14 for African American students.
- Ranked #21 in 2014 LinkedIn's ranking of "Best Universities for Software Developers."
- Nearly 80 teams completed industry-sponsored senior-design, capstone projects.
- Platinum sponsor of Grace Hopper Conference; sent 30 Students to GHC 2018.
- More than a dozen CS student organizations under the umbrella of the student chapter of the ACM.
- Student groups include: ACM, Women Who Compute, AI Society, VR Society, Cyber Security Group.
- Center for CS Outreach runs one of the largest university-based K-12 outreach program.
- NSA Center of Excellence in Cyber Security Education, Research and Cyber Operations.
- New major in Data Science offered jointly with the School of Natural Sciences and Mathematics.

### Organizational News

- Multiple new positions to be filled in Graphics, Virtual Reality, Vision, Data Science, Software Engineering, Cyber Security, Artificial Intelligence, and Human Computing Interaction (HCI).
- Center for Research in Machine Learning recently founded by Drs. Gogate, Ruoizzi, and Natarajan.
- Center for Applied Artificial Intelligence and Machine learning founded by Dr. Doug DeGroot and Dr. Gopal Gupta.
- Center for Women in Cyber Security recently founded by Dr. Bhavani Thuraisingham.

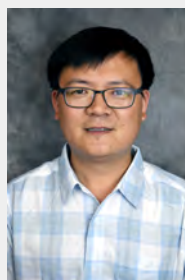
### New Tenure-Track Faculty



**Dr. Jessica Ouyang**  
Natural Language Processing, Automatic Summarization  
PhD Columbia University



**Dr. Kangook Jee**  
AI/Machine Learning, System & Network Security  
PhD Columbia University



**Dr. Feng Chen**  
AI/Machine Learning, Big Data Analytics  
PhD VA Tech



**Dr. Rishabh Iyer**  
AI/Machine Learning  
PhD University of Washington



**Dr. Kyle Fox**  
Comp. Geometry  
PhD UIUC, Postdoc Duke

A computer science degree not only prepares students to design and build software but also provides them with the skills to address broad issues such as developing innovative ways to send data over networks. Training in computer science also enables students to work as part of a team in a vast number of areas, including robotics, computer vision and digital forensics.

### Careers in Computer Science

You'll find computer science careers in virtually every industry, from finance to Web design to software development. Computer scientists work on data security, data mining, computer graphics, artificial intelligence, machine learning, virtual reality, game design, animation and biotechnology. What all these computer science careers have in common is the foundation in discrete mathematics. Our curriculum provides this foundation at the start, and we build upon it with an ample selection of courses in the core areas of the discipline.



### High School Preparation

Computer science requires strong high school preparation. A minimum of elementary algebra and geometry should be completed, while trigonometry, calculus, physics and chemistry are highly recommended. Any Advanced Placement courses in computer science or advanced technology are highly beneficial. Solid communication skills are essential since most computer science professionals work as part of a team.

### Computer Science at UT Dallas

One of the largest departments of its kind in the country, the Computer Science Department at UT Dallas features an internationally recognized faculty, more than 4,600 students and a 150,000-square-foot building with modern classrooms and cutting-edge laboratories.

The core of the bachelor's degree curriculum in computer science includes programming methodologies, the analysis of algorithms and data structures and the study of operating systems. The curriculum continues with courses in advanced data structures, programming languages and automata theory, culminating in a challenging project course in which students demonstrate the use of computer science techniques. We also offer a rich choice of application areas, including digital systems design, computer networks, virtual reality, machine learning, embedded systems, computer imaging, artificial intelligence, cognitive modeling and human-computer interaction.

### Internships and Fast-Track

The Erik Jonsson School operates one of the largest internship and cooperative education programs of its kind, averaging more than 4,600 undergraduate and graduate student placements a year at Dallas-area high-tech companies, including State Farm, Lockheed Martin, AT&T, Fujitsu Laboratories of America, Samsung Electronics, Cisco, Texas Instruments, Intel, Raytheon and IBM.

The Fast-Track Program enables exceptionally gifted undergraduate students to include master's level courses in their undergraduate degree plans. When Fast-Track students graduate with a bachelor's degree, they are automatically admitted to graduate school at UT Dallas. The hours required to complete the master's degree are reduced by up to 15 hours by the number of Fast-Track graduate hours completed.

### Contact Information

#### Office of Admission and Enrollment

800 West Campbell Road  
Richardson, TX 75080-3021

Phone: 972-883-2270 or  
1-800-889-2443

Email: [interest@utdallas.edu](mailto:interest@utdallas.edu)

Website: [utdallas.edu/enroll](http://utdallas.edu/enroll)

#### Computer Science Undergraduate Program

Dr. Ovidiu Daescu

Phone: 972-883-4196

Office: ECSS 4.224

Email: [daescu@utdallas.edu](mailto:daescu@utdallas.edu)

Website: [utdallas.edu/~daescu](http://utdallas.edu/~daescu)

#### Computer Science Graduate Program

Prof. Shyam Karrah

Phone: 972-883-4197

Office: ECSS 3.907

Email: [skarrah@utdallas.edu](mailto:skarrah@utdallas.edu)

Website: [utdallas.edu/~skarrah](http://utdallas.edu/~skarrah)

#### Computer Science Program

Erik Jonsson School of  
Engineering & Computer  
Science, EC-31

The University of Texas at Dallas  
800 West Campbell Road  
Richardson, TX 75080-3021

Website: [cs.utdallas.edu](http://cs.utdallas.edu)

For complete admission and  
degree requirements, view the  
Undergraduate Catalog at

[catalog.utdallas.edu](http://catalog.utdallas.edu)