

Computer Science

*Master of Science in Computer Science
Doctor of Philosophy*

For More Information

Campus address: Gates Dell Complex (GDC) 2.702, phone (512) 232-7407, fax (512) 471-8885; campus mail code: D9500

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E-mail: csadmis@cs.utexas.edu (prospective)/
gradoffice@cs.utexas.edu (graduate coordinator)

URL: <http://www.cs.utexas.edu/>

Facilities for Graduate Work

To provide the most advanced resources for teaching and research, the Department of Computer Science manages its own network and system of more than 1,000 hosts.

A staff of 12, under the direction of the department chair, specifies, buys, installs, and maintains this computing infrastructure. Through accounts on the department's Linux and MacOS workstations, students, faculty members, and staff have access to public laboratories and private equipment.

Many different computer systems are available for research use by faculty members and students in the department. The department operates a general-purpose high-throughput computing (HTC) Linux cluster with over 2,000 cores, Dell PowerEdge checkpoint servers, 100 nVidia GPUs of various types, and a NetApp filer with 77TB of storage. This cluster, as well as all public computing resources, are available to everyone via HTCondor, a resource management tool for widely distributed systems. There are several hundred Linux machines in public labs, and there are over 100 linux boxes on graduate desks. Several hundred other workstations of varying configurations and platforms are located in private research labs or on researchers' desks.

All departmental computers are networked together using one or 10 Gigabits per second Ethernet. The network, managed and maintained by staff, consists of over 100 Cisco switches, with a Cisco 6513 serving as its point of presence and firewall. Network-accessible storage is provided by a NetApp filer with 77TB of space dedicated to cluster computing work and 75TB for home directories as well as infrastructural, project and course-related storage.

Areas of Study

Graduate study in computer science is offered in the following areas: analysis of algorithms; artificial intelligence; automated reasoning; communication protocols; compilers; computational biology; computational complexity; computational visualization; computer architecture; computer graphics; computer networks; computer vision; cryptography; data mining; database management; distributed systems; fault-tolerant computing; formal methods; machine learning; mathematical software; mobile and ad hoc networks; natural language processing; neural networks; numerical analysis; operating systems; parallel programming; programming language design and implementation; randomized algorithms; real-time systems; robotics; scientific computing; secure computing; software construction from components; system modeling; theoretical computer science; and wireless networks. The Master of Science and PhD degrees in Computer Science are STEM Designated Degree Programs, as identified by the

Department of Homeland Security for purposes of the 24-month STEM optional practical training extension.

Graduate Studies Committee

The following faculty members served on the Graduate Studies Committee (GSC) in the spring 2025 semester.

Scott J Aaronson	Shravan Ravi Narayan
Aditya Akella	Gordon S Novak Jr
Venkat Arun	Amy Pavel
Chandrajit L Bajaj	Georgios Pavlakos
Joydeep Biswas	Simon Peter
James Bornholt	Keshav K Pingali
Swarat Chaudhuri	C Greg Plaxton
Shuchi Chawla	William H Press
Inderjit S Dhillon	Eric Price
Isil Dillig	Lili Qiu
Gregory C Durrett	Vijaya Ramachandran
Donald S Fussell	Christopher J Roszbach
Anna Gal	Sujay Sanghavi
Kristen L Grauman	Purnamrita Sarkar
David Harwath	Hovav Shacham
Qixing Huang	David Soloveichik
Warren A Hunt Jr	Peter H Stone
Nick Hunter-Jones	Dixin Tang
Alexander Huth	Kevin Tian
Daehyeok Kim	Ufuk Topcu
Adam R Klivans	Robert A Van De Geijn
Philipp Kraehenbuehl	Vijaychidambaram Velayudhan
Matthew Alan Lease	Pillai
Calvin Lin	Paul Etienne Vouga
Leqi Liu	Atlas Wang
Qiang Liu	Brent R Waters
Roberto Martin-Martin	Karen E Willcox
Kenneth McMillan	Emmett Witchel
Risto P Miikkulainen	John Wright
Daniel P Miranker	David Junzi Wu
Aloysius K Mok	Amy Zhang
Raymond J Mooney	Yuke Zhu
Dana Hadar Moshkovitz aaronson	David I Zuckerman

Admission Requirements

Most entering graduate students have degrees in computer science. Students with degrees in other areas may be considered for admission; if admitted, they may be required to take undergraduate courses in computer science, without credit toward a graduate degree, to satisfy background requirements.