DEPARTMENT OF COMPUTER SCIENCE

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The Computer Science discipline is concerned with the design, analysis, implementation, maintenance, and evolution of computer-based systems, and their associated theoretical foundations. Computer science is powering the information revolution of the 21st century, and computer-based systems are used in every scholarly discipline, every sector of industry, and every walk of human life.

Advanced computation tools and techniques are revolutionizing, transforming, and often automating the way we work, play, communicate, collaborate, and conduct business. Computational approaches are integral to a broad array of disciplines including computational natural and social sciences, bioinformatics, health informatics, digital humanities, and financial technology. In addition, the spread of computing throughout society has made the ethical use of computing a central concern to policymakers.

Computer scientists must be well-grounded in the theory of computing and in its application to diverse areas, and they must be able to work closely with members of other professions that use computing. The department therefore offers a broad array of programs in computer science at both the undergraduate and graduate levels. Students who study this discipline can learn about a wide variety of concepts and methods in computer science—algorithms, artificial intelligence, computer networking, cyber security, databases, data mining, data structures, machine learning, operating systems, programming languages, robotics, software engineering—and they will explore effective and ethical applications of these concepts and methods.

Faculty

Department Faculty

Professors
Ateniese, Aydin, Barbará, Brodsky, J. Chen, S. Chen, Cummings, Das, Domeniconi, Evrendilek, Košecká, Luke, Maddox, Marcus, Masri, Pettit, Rangwala, Rosenblum (Chair), Setia, Shehu, Simon, Singh, Snyder (Associate Chair), Tecuci, Wijesekera

Associate Professors

Assistant Professors
Anastasopoulos, Andrea, Avramovic, Baume, Deng, Dimitriadis, González Hernández, Gonzalez Samúdio, Gopalkrishna, Hrolenok, Johnson-Matthews, Kamranfar, Komaropoulos, Lam, Liu, Osterweil, Pruss, Shamshedde, Stein, Xiao, Yang, S. Yao, Z. Yao, Yaroslavtsev, Ye, Yin, F. Yu, Zaman, Zhang, Zhou, Zhu

Senior Instructors
Otten

Instructors
Mughal

Affiliated Faculty
Bidkhorii, X. Chen, Cheng, Eagle, Hong, Johri, Khasawneh, Lyberger, McDonald, Mohebbi, Motti, Pfoser, Shishika, Sun, Zunzer, Wei, Zampieri, K. Zeng

Adjunct Professors

Emeritus Faculty
De Jong, Gomaa, Hamburger, Kerschberg, Menascé, Motro, Pullen, Rine, Sood, P. Wang, Wechsler

Programs
- Applied Computer Science, BS
- Computer Science Minor
- Computer Science Undergraduate Certificate
- Computer Science, BS
- Computer Science, MS
- Computer Science, PhD
- Information Systems, MS (CS)
- Software Engineering Graduate Certificate
- Software Engineering Minor
- Software Engineering, MS