USC Viterbi
School of Engineering
Department of Computer Science

BY THE NUMBERS

FACULTY
85 Faculty Members
- **41** Tenure-Track
- **29** Research Faculty
- **15** Teaching Faculty

STUDENTS
4845 Students
- **1429** Undergraduate
- **3102** Master's
- **314** Ph.D.

ACADEMY MEMBERS & SOCIETY FELLOWS
- **1** ACM Turing Award Winner
- **5** NAE
- **2** NAS
- **11** ACM
- **17** IEEE
- **15** AAAI
- **11** AAAS

MAKING AN IMPACT - INNOVATION FOR HUMANITY
NEWS HIGHLIGHTS

USC Games established the Gerald A. Lawson Endowment Fund, supporting Black and Indigenous students

Trojans celebrated the groundbreaking of a new building for computer science at USC, a 116,000-square-foot facility focused on improving and benefiting society

USC computer science researchers are collaborating in new $20M NSF Institute to tackle tough challenges, such as food security, using AI and mathematics

The newly launched USC Center for Autonomy and AI will bring together researchers across USC Viterbi to work on projects including autonomous robotic systems and autonomous vehicle safety

ACCOLADES 20-21

NSF CAREER AWARD
Aleksandra Korolova, Haipeng Luo, Heather Culbertson, Jyo Deshmukh, Xiang Ren

ACM DISTINGUISHED MEMBERS
Jernej Barbic, Yan Liu

AAAS FELLOWS
Yolanda Gil, Leana Golubchik

ACM FELLOWS
Sven Koenig, Maja Matarić, Michael Zyda

IEEE FELLOWS
Yolanda Gil, Craig Knoblock

ONGOING RESEARCH - $7 MILLION RESEARCH EXPEDITURES (FY 20-21)

Synthesis of Quantitative Network Analytics: From Left-of-Launch to Right-of-Boom

PIs: Mukund Raghothaman, Jyo Deshmukh, Srivatsan Ravi, Michael Collins (ISI)

National Science Foundation: $750,000

NeuroDB: A Neural Network Framework for Efficiently Answering Database Queries Approximately

PI: Cyrus Shahabi

National Science Foundation: $500,000

Detecting and Repairing Accessibility Failures in Web Applications

PI: William Halford

National Science Foundation: $495,774

Improving Human-Robot Collaboration on Assembly Tasks by Anticipating Human Actions

PIs: Stefanos Nikolaidis (Computer Science), SK Gupta (Aerospace and Mechanical Engineering)

National Science Foundation: $749,693

Network-Enabled Cooperative Perception for Future Autonomous Vehicles

PI: Ramesh Govindan

National Science Foundation: $606,637

NOTABLE ACHIEVEMENTS

#1
Top game design program for undergraduates awarded to USC Games, Princeton Review

10th
In the world based on publications, Guide2Research

#2 Online computer science graduate program, US News and World Report

82%
Increase in student population since 2015

21
NSF CAREER awards held by current faculty

EXPANDING EXPERTISE: FOUR NEW FACULTY MEMBERS

ROBIN JIA
Ph.D. Stanford University

Natural language processing, robustness, machine learning

JESSE THOMASON
Ph.D. University of Texas at Austin

Language grounding and natural language processing for robotics

VATSAL SHARAN
Ph.D. Stanford University

Machine learning, statistics, theoretical computer science

SWABHA SWAYAMDIPTA
Ph.D. Carnegie Mellon

Biases and interpretability in natural language processing (starting August 2022)