

# BY THE NUMBERS

## USC DEPARTMENT OF COMPUTER SCIENCE 2019

### FACULTY

**89** faculty members  
**38** tenure-track  
**32** research faculty  
**19** teaching faculty

### STUDENTS

**4,075** students  
**321** PhD  
**2,475** master's  
**1,279** undergraduate

### ACADEMY MEMBERS & SOCIETY FELLOWS

**1** Turing Award Winner  
**5** NAE  
**2** NAS  
**8** ACM  
**15** IEEE  
**35** additional society members, including AAAI and AAAS

### ADDITIONAL HIGHLIGHTS

USC's online computer science graduate program was ranked No.1 according to *US News and World Report 2019*, for the seventh consecutive year

42 percent of entering fall 2019 computer science freshmen are women

The USC Games program is recognized as the top game design program in North America by the *Princeton Review*

The USC Computer Science (CS) Department Industry Affiliate Program (IAP) launched in fall 2018, with current members including Google, Microsoft, Lyft, DiDi and Facebook

### NEW FACULTY, RECRUITED 2018-2019

#### Assistant Professor



**Mukund Raghothaman**  
PhD: University of Pennsylvania

Programming languages, software engineering, program synthesis, software verification, probabilistic methods in static analysis, automated reasoning

#### Research Assistant Prof.



**Fred Morstatter**  
PhD: Arizona State University

Social network analysis, data mining, machine learning, artificial intelligence

#### Research Assistant Prof.



**Mohammad Soleymani**  
PhD: University of Geneva

Affective computing, multimodal machine learning, computational mental health assessment, interactive virtual agents

#### Assoc Prof. of Practice



**Wei-Min Shen**  
PhD: Carnegie Mellon University

Self-reconfigurable and metamorphic robots, surprise-based machine learning, artificial intelligence, autonomous systems, life sciences

#### Lecturer



**Mohammad Reza Rajati**  
PhD: University of Southern California

Machine learning, natural language processing, data mining, artificial intelligence and multiagent systems

### FACULTY DISTINCTIONS

Okawa Foundation Research Grant Award ... **Bistra Dilkina**  
USC Distinguished Professor ... **Maja Mataric**  
Google AI Faculty Research Award ... **Cyrus Shahabi** and **Xiang Ren**  
AIMBE Fellow ... **Shrikanth Narayanan**  
Herbert A. Simon Prize for Advances in Cognitive Systems ... **Paul Rosenbloom**  
Academy of Motion Pictures, Arts and Sciences ... **Paul Debevec**  
IEEE Fellow ... **Michael Zyda**  
New Voices of National Academies of Science, Engineering and Medicine ... **Yan Liu**

### GRANT HIGHLIGHTS

**Jyotirmoy Deshmukh**, FMITF: A Novel Framework for Learning Formal Abstractions and Causal Relations from Temporal Behaviors, US-National Science Foundation: **\$1,000,000**  
**Ramesh Govindan**, CNS Core: Large: Collaborative Research: Network Design Automation, US-National Science Foundation: **\$1,000,000**  
**David Kempe**, Multi-Scale Network Games of Collusion and Competition, Regents of the University of Michigan: **\$1,158,953**  
**Bistra Dilkina**, CRISP Type 1/Collaborative Research: Sustainable and Resilient Design of Interdependent Water and Energy Systems at the Infrastructure-Human-Resource Nexus, US-National Science Foundation: **\$210,417**  
**Jernej Barbic**, CHS: Small: Highly Realistic Virtual Human Hands using Anatomically Based Modeling, US-National Science Foundation: **\$498,865**

### STUDENT DISTINCTIONS

Undergraduate student **Zane Durante** received the Goldwater Scholarship (2019-2020), the nation's preeminent scholarship for undergraduates in mathematics, natural sciences or engineering

For the second year in a row, a team of computer science students placed first in the regional contest of the "Olympics of Computer Programming," **the International Collegiate Programming Contest**

PhD student **I-Hung Hsu**, was named an Amazon Alexa Graduate Fellow, awarded to only 10 doctoral students from universities around the world

