HIGHLIGHTS 2020-21

MEMPHIS.EDU/CS

The Computer Science Department at the University of Memphis offers bachelor's, master's, and doctoral degrees in computer science, as well as an accelerated bachelor's/master's program and two graduate certificates (cybersecurity and data science). Our 22 faculty members are highly productive researchers. With over $25 million in active research grants, the Department has been ranked 55th nationwide among CS departments in federally funded research expenditures. Our faculty include 2 IEEE Fellows, an ACM Distinguished Speaker and two state-endowed chairs of excellence professors.

SPRING '21 TENURE-TRACK FACULTY HIRE

XIAOLEI HUANG, ASSISTANT PROFESSOR
PhD, Information Science
CU Boulder, 2020
Research Areas | Natural language processing, machine learning, public health

ALUMNI HIGHLIGHT

SIDNEY D'MELLO (PHD '09) leads the NSF-funded AI Institute for Student-AI Teaming at CU Boulder. The five-year, $20 million grant is a multidisciplinary effort involving nine universities, as well as public school districts, private companies and community leaders. It will explore AI applications in education and workforce development, particularly among historically underrepresented students.

RESEARCH HIGHLIGHTS

- **THE CENTER FOR INFORMATION ASSURANCE, UNDER THE DIRECTION OF PROF. DIPANKAR DASGUPTA,** will lead a $2 million research-based Cybersecurity Education Innovation project funded by the Department of Defense's National Centers of Academic Excellence in Cybersecurity program. The project will involve contributions from the University of West Florida, North Carolina A&T State University and The Citadel.

- **PROFESSORS AMY COOK (PI), VINHTHUY PHAN (CO-PI) AND ALISTAIR WINDSOR (CO-PI, MATHEMATICAL SCIENCES)** are leading a $299,000 National Science Foundation grant for "Improving the Quality of Teaching Assistant Feedback to Undergraduate Students in Introductory Computer Science Courses."

- **PROFESSOR SAJJAN SHIVA** received funding for his project "Testing Requirements and Functionality of Machine Learning Systems Especially in Cyber Resilient Approaches" from the Department of Homeland Security, through the Air Force Institute of Technology's Test and Evaluation Center of Excellence.

- **PROFESSOR XIAOLEI HUANG** was awarded grants totaling $28,000 from Adobe to help with his research. The grants will be applied towards the project "Time-aware Semantic Search for COVID-19 Scientific Literature."

- **PROFFESSOR DIPANKAR DASGUPTA** received an award in the amount of $490,000 from NCAEC for cybersecurity research.

- **LILLIAN & MORRIE MOSS CHAIR OF EXCELLENCE PROFESSOR SANTOSH KUMAR** received grants totaling more than $1 million from the National Institutes of Health and the National Science Foundation for mobile health research.

OTHER HIGHLIGHTS

- **RECENT DOCTORAL GRADUATES** Nazir Saleheen joined Google, Syed Monowar Hossain joined Facebook, Soujanya Chatterjee joined Amazon and Rummana Bari joined Spire Health (a high-tech Silicon Valley startup in Smart Health).

- **THERE HAVE BEEN NUMEROUS STUDENT-LED PUBLICATIONS IN THE PAST YEAR,** including in ACM CCS 2021 (Nazir Saleheen, Md Azim Ullah), ACM UbiComp 2021 (Rummana Bari, Sayma Akther), EDM 2021 (Anup Shakya), ICML 2021 (Lokesh Das), T-ITS 2021 (Navid Imran), SN Computer Science (Kishor Datta Gupta), IJCNN 2021 (Kishor Datta Gupta), IEEE Access (Subash Poudyal), J. Complex and Intelligent Systems (Kishor Datta Gupta) and IEEE Transactions on AI (Kishor Datta Gupta).

THE UNIVERSITY OF MEMPHIS | Department of Computer Science