

EXECUTIVE BRIEF

SCHOOL OF DATA SCIENCE

Inspiring and preparing a generation of diverse data scientists who can make our world more equitable, informed and secure.



OVERVIEW

The only school of its kind at a Carnegie R1 U.S. Hispanic Serving Institution, UTSA's School of Data Science offers data-intensive degree programs and research across every discipline.

The school's world class faculty and core staff work in tandem with hundreds of students to discover, teach, learn and use data science and analytics for positive societal and economic impact.

Located in downtown San Antonio, the school is a cornerstone of the university's 10-year strategic growth plan.

THE CHALLENGE

- » **The need for data science talent is unmet** and lacking in representation—fewer than 15% of data scientists are Black, Latino or women. It is essential to increase the quality and accessibility of data science education to ensure equity, foster an informed citizenry and unlock the potential of a new generation of data innovators.
- » **The value of data created in our highly connected world is untapped** (\$1.3T annually in the U.S.). Providing the right physical and virtual environments for diverse research teams is critical for new data-informed discoveries.

THE POTENTIAL

UTSA is uniquely positioned to advance racial and ethnic diversity in data science as a Tier One, Hispanic Serving university where approximately 46% of data science students are first-generation, and 49% are Black or Latino. Furthermore, the School of Data Science's location at the intersection of San Antonio's Zona Cultural and Tech District is spurring economic development for our city, its citizens and beyond.

THE IMPACT

Through our education programs and research—as well as our collaboration with innovative companies, entrepreneurs, start-ups and government agencies—**UTSA is playing a lead role** in meeting the persistent national growth in data science and analytics jobs, projected at 26.5% in Texas alone over the next decade. Through our interdisciplinary research, we are addressing global issues in areas including health, poverty and sustainability.

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COMPONENTS

- » **400+** students
 - 5 graduate degree programs
 - 2 undergraduate degree programs
 - Multiple certificates and bootcamps
- » **30** core faculty
spanning disciplines from science, technology, engineering, math, business, education, public health, social sciences and humanities
- » **16** research centers and institute partners
 - Matrix AI Consortium for Human Wellbeing
 - Open Cloud Institute
 - Shared labs with the City of San Antonio & UT Health San Antonio
 - Labs focus on the Internet of Things, bioinformatics, cyber-informed engineering, data engineering/fusion, robotics, smart transportation and more
- » **9** connected classrooms, **4** collaboration neighborhoods and **5** demo, performance and symposium spaces



BENEFITS TO SAN ANTONIO AND TEXAS

- » **Increased access** for San Antonio and South Texas residents interested in data science careers
- » More **data-informed teams** to address pressing environmental, health and socioeconomic challenges in Texas
- » Greater capability to **advance the racial and ethnic diversity** of the data science workforce

PHILANTHROPIC OPPORTUNITIES

- » *Datos para todos* – the interdisciplinary research and scholarship fund
- » Endowed directorship & professorships
- » Endowed residency program - artist, journalist and musician in residence
- » Independent postdoctoral scholar program
- » Graduate fellowship program
- » Strategic industry membership program

STRATEGIC RELATIONSHIPS

- » Dell
- » Frost Bank
- » H-E-B
- » MITRE
- » National Security Agency (NSA)

FOR MORE INFORMATION

David Mongeau

Founding Director and Professor of Practice, University College

david.mongeau@utsa.edu

provost.utsa.edu/sds

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