Texas A&M
INSTITUTE OF DATA SCIENCE

The Texas A&M Institute of Data Science (TAMIDS) pursues new approaches to data science research, education, operations, and partnerships. These approaches cross college boundaries to connect elements of data science from engineering, technology, science, and the humanities and inform wider social challenges.

RESEARCH AFFILIATES

The Texas A&M Institute of Data Science Research Affiliates Program aims to increase visibility for Texas A&M data science researchers and involve them in developing and joining activities under the auspices of TAMIDS. The program is open to all Texas A&M faculty (in tenure, professional, instructional, research, and other tracks), research scientists, postdoctoral researchers, and administrative and operations staff and professionals whose role and interests include data science.

DATA SCIENCE EDUCATION, TRAINING, AND RESEARCH SUPPORT

TAMIDS helps students, faculty, and researchers acquire skills and expertise in data science through education, training, and support. Current programs include:

▶ **Bring Your Own Data Workshops:** Available weekly, these workshops are one-on-one online consultancy sessions with a TAMIDS data scientist who can help with formulating approaches to your data science research project and assist with developing code to take advantage of the latest data analytics methods and high-performance computing facilities.

▶ **Webinars and Tutorials:** Led by experts across Texas A&M University in both synchronous as well as recorded sessions, these events help develop skills and expertise in methods, tools, and systems used in varied foundational and application domains of data science.

▶ **Seminars:** A weekly seminar featuring leading external speakers from a broad range of domains within data science is hosted in conjunction with departments across Texas A&M.

▶ **Student Competition:** Held annually in the spring, student teams work together on a real-world problem and develop the best models to solve them.

▶ **Traineeship Program:** This program matches faculty, researchers, and students to data science research projects, with TAMIDS providing assistance in project development, consultancy, and student mentorship.

▶ **Program and Course Development:** TAMIDS collaborates with Texas A&M departments, colleges, and faculty to develop degree programs, certificates, and innovative courses in foundations and applications of data science.

▶ **Research Collaboration:** TAMIDS data scientists are involved in collaborations with academic, agency, and administrative units at Texas A&M that use data science both in fundamental research and to enhance the operations of the University.

▶ **Past Programs:** We have offered and anticipate offering in the future, the *Postdoctoral Project Program* to provide partial support to faculty to employ data science postdocs and the *Data Resource Development Program* that promotes development and usage of data to enable research at Texas A&M. The *PhD Research Workshop* provided advanced training in data science to an interdisciplinary cohort of graduate students in a week-long intensive workshop.

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PROPOSAL SUPPORT

TAMIDS has developed "building blocks" for the data science ecosystem that can support proposals for extramural funding. These components include:

Service and enablement: TAMIDS staff data scientists acting as research collaborators and consultants

Course development: Adapting data science educational and training materials developed by TAMIDS as components of innovative certificates, minors, and degree programs in foundational and application domains of data science

Training development: Incorporating proposed data science research products into training materials and systems for instructor-led and self-study education

Training operations and outreach: Operating training courses in data science for students and faculty, including outreach for student participation and training of instructors from minority serving institutions

Interdisciplinary community building: Ranging from single PI to center-level proposals through workshops and seminars

GRANTS AVAILABLE

▶ TAMIDS solicits proposals for one-day workshops in any area of data science. The aim of the TAMIDS Workshop Grants Program is to support community building, stimulate collaboration, and foster interdisciplinary growth in data science among researchers at Texas A&M.

▶ TAMIDS Graduate Travel Grants Program supports graduate students to attend and present at conferences in any domain of data science. Awards of up to $500 will be made under the program.

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