



# TAMIDS Workshop

## Uncertainty Quantification: Theory Meets Practice

November 5, 2021, 8:00am-2:45pm

Texas A&M - Rudder Rm 701

<https://u.tamu.edu/tamids-wkshp-ugml>

## Call for Participation

**Goals and Scope:** The Texas A&M Institute of Data Science (TAMIDS) is hosting a one-day workshop to bring together TAMU researchers across different colleges and disciplines with common interests in the intersection of Uncertainty Quantification and Machine Learning. The multidisciplinary interactive workshop will feature topics spanning theory and applications, and offer a venue to potentially seed new collaborations and help strengthen TAMU's competitive position in the field through presenting research results, sharing open problems, and demonstrating tools and software in machine learning and artificial intelligence as these pertain to uncertainty quantification and probabilistic computational methods.

**Workshop Format:** The talks will explore the use of novel ML methods and algorithms for a wide range of UQ challenges from uncertainty quantification and propagation methods to probabilistic inverse problems, surrogate model construction, sensitivity analysis, dimension reduction, optimization and design under uncertainty, and physics-informed deep learning, among others.

A panel discussion amongst speakers and participants will focus on identifying strategy and opportunities for collaborative research and extramural funding.

The workshop is open to both in person and remote participation. Registration is required and is prioritized to faculty, researchers, and staff until October 22, 2021, when it will be opened to students..

**Speakers:**

Dr. Raktim Bhattacharya (AERO)	Dr. Ronald DeVore (MATH)
Dr. Yu Ding (ISEN)	Dr. Yalchin Efendiev (MATH)
Dr. Simon Foucart (MATH)	Dr. Irina Gaynanova (STAT)
Dr. Eduardo Gildin (PETE)	Dr. Guergana Petrova (MATH)

Register to Attend Here: <https://forms.gle/LkANtnKLxmLSE6yZA>

Contact information: Ms. Jennifer South, TAMIDS, [jsouth@tamu.edu](mailto:jsouth@tamu.edu)