



# TAMIDS Workshop

## UQ: Theory Meets Practice

November 5, 2021

8:00am-2:45pm, Rudder Rm 701

### Program

- 8:00 Welcome and Introduction
- 8:10 Dr. Eduardo Gildin (PETE): *Steps towards developing fast proxies for reservoir simulation and optimization*
- 8:45 Dr. Yalchin Efendiev (MATH): *Machine learning in multiscale models*
- 9:20 Dr. Raktim Bhattacharya (AERO): *Uncertainty Management in Hypersonic Flight Dynamics*
- 9:55 Break with Refreshments – Rm 707
- 10:05 Research Speed Dating
- 10:35 Dr. Guergana Petrova (MATH): *Approximation via Neural Networks*
- 11:10 Dr. Yu Ding (ISEN): *Uncertainty Quantified Functional Curve Comparisons And Its Application In Wind Energy*
- 11:45 Dr. Ronald DeVore (MATH): *The mathematical view of learning from data*
- 12:20 Lunch (provided to registrants) – Rm 707
- 1:05 Dr. Simon Foucart (MATH): *Integrating Observation Errors in Optimal Recovery*
- 1:40 Dr. Irina Gaynanova (STAT): *Data integration with mixed types of measurements*
- 2:15 Panel Discussion
- 2:45 Workshop Conclusion

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