

UNIVERSITY of HOUSTON

Department of Mathematics

Scientific Computing Seminar

Professor Lijian Jiang
Department of Mathematics
Tongji University
Shanghai, China

Data-driven modeling for nonlinear dynamical systems

Monday, November 14, 2022

3 PM- 3:50 PM

Room 646 PGH

Abstract: Data-driven discovery has become a very important paradigm for science and engineering. In this talk, I will present data-driven modeling for nonlinear dynamical systems using transfer operators. With time-series data, transfer operators are used to model deterministic dynamical systems and stochastic dynamical systems. The resultant data-driven models can be used for system identification, prediction and uncertainty quantification.