



Department of  
Information Science Technology  
Cullen College of Engineering



## IST Seminar Series Presents:

### Scaling Data and AI for Upstream

**Dr. Andy Wang**

Founder & CEO, Prescient Devices, Inc.

**Monday, November 11, 2024 from 2:00PM-3:00PM (Central Time)**

- **Join In-Person: SAB1 203**
- **Join online:** [https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_NDIxZTBiOWItY2U4YS00ZmE5LWl0ZTQtN2QxMjgzMDAwYmRk%40thread.v2/0?context=%7b%22Tid%22%3a%22170bbabd-a2f0-4c90-ad4b-0e8f0fc4259%22%2c%22Oid%22%3a%22c9f8dd10-bdbf-4c7a-bc65-d4bc72037cbe%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDIxZTBiOWItY2U4YS00ZmE5LWl0ZTQtN2QxMjgzMDAwYmRk%40thread.v2/0?context=%7b%22Tid%22%3a%22170bbabd-a2f0-4c90-ad4b-0e8f0fc4259%22%2c%22Oid%22%3a%22c9f8dd10-bdbf-4c7a-bc65-d4bc72037cbe%22%7d)

**Abstract:** Data science is experiencing strong growth in oil & gas, but scaling data science solutions to production is still a major challenge. This talk will explore the top challenges in scaling production-grade data science solutions from generating high-quality data at massive scale to solving computing resource limitations and database bottlenecks. We will use a drilling digital twin solution as a use case to show how to scale this solution to support 100+ rigs and process 2.1-Billion real-time data points and 57-Million database queries per day.

**Biosketch:** Dr. Andy Wang is the founder and CEO of Prescient Devices, Inc., a data technology company focused on scaling data and AI solutions for industrial and energy sectors. Prior to Prescient, Andy was the co-founder and CTO of GTI IoT Technology, which focused on delivering large-scale, low-power wireless sensor solutions. Andy received his Ph.D. from the Massachusetts Institute of Technology.