



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON APPLIED MATHEMATICS

**Recent Advances of Approximation and Computation of
High-Dimensional Functions**

By

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Abstract

In this talk, we will discuss recent advances of approximation and computation of high-dimensional functions including traditional approximation tools, neural networks, symbolic representations, tensor networks, etc. The goal is to understand the theoretical and practical properties of different approximation tools for solving high-dimensional problems.

Bio: Haizhao Yang is an associate professor of mathematics and computer science at UMD since 2023. He was an assistant professor at UMD (2022-2023), Purdue University (2019-2022), National University of Singapore (2017-2019), and a visiting assistant professor at Duke University (2015-2017). He received a B.Sc. at Shanghai Jiao Tong University in 2010, an M.Sc. at the University of Texas at Austin in 2012, and a Ph.D. at Stanford University in 2015. His research focuses on machine learning, statistical analysis, applied and computational mathematics. He is a recipient of the NSF CAREER Award (2020), the ONR Young Investigator Award (2022), and the DARPA Young Faculty Award (2024).

Date : 29 October 2024 (Tuesday)

Time : 10:30a.m. Hong Kong SAR

Join Zoom Meeting

<https://hkust.zoom.us/j/5616960008?pwd=tT8rey9QkMvyJfbb9M5fUXqiTsRjzu.1&omn=95846400740>

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All are Welcome!