



復旦大學
FUDAN UNIVERSITY

Applied Math
Ph.D. Seminar

A deep learning framework for geodesics under spherical Wasserstein-Fisher-Rao metric

Speaker: Yang Jing (Shanghai Jiao Tong University)

Time: 2023-03-16, 16:10 to 17:00

Location: Rm 1801, Guanghua East Tower

Advisor: Lei Li

Abstract: Wasserstein-Fisher-Rao (WFR) distance is a family of metrics to gauge the discrepancy of two measures. Compared to the case for Wasserstein distance, the understanding of geodesics under spherical WFR is less clear. We develop a deep learning framework to compute geodesics under spherical WFR metric, and the learned geodesics can be adopted to generate weighted samples. Our framework can be beneficial for applications with given weighted samples, especially in Bayesian inference.