Workshop on Learning and Computational Science
(13 Mar 2026–15 Mar 2026)
List of Speakers and Talks' Title

Name and Affilliation	Talk Title
David Adalsteinsson University of North Carolina at Chapel Hill, USA	A Systems-Level Environment for Scientific Computing, Coding and Visualization
Zhenning Cai National University of Singapore, Singapore	On the Accuracy of Tensor Transfer Method for Open Quantum Systems
Iain Carmichael University of North Carolina at Chapel Hill, USA	Moving Artificial Intelligence Algorithms for Pathology Closer to the Clinic by Addressing Technical Barriers to Scale
Zeff Harrison University of North Carolina at Chapel Hill, USA	Preparing for Catastrophe in a Changing World: The Role of Data Science and Machine Learning in the (re)Insurance Sector
Rongjie Lai Purdue University, USA	Self-supervised In-context Operator Learning on the Probability Measure Space
Harlin Lee University of North Carolina at Chapel Hill, USA	O(k)-Equivariant Dimensionality Reduction on Stiefel Manifolds
Yueh Lee University of North Carolina at Chapel Hill, USA	Seeing the Invisible with Medical Imaging and Data Science: Challenges and Opportunities
Youzuo Lin University of North Carolina at Chapel Hill, USA	AI for Scientific Discovery: Learning Beyond Data in Computational Wave Imaging
Yifei Lou University of North Carolina at Chapel Hill, USA	A General Framework for Group Sparsity in Hyperspectral Unmixing Using Endmember Bundles
Alex McAvoy University of North Carolina at Chapel Hill, USA	Expectation-enforcing Strategies for Repeated Games
Tan Minh Nguyen National University of Singapore, Singapore	Steering Large Language Models: A Geometric and Control-Theoretic Approach
Yongsheng Soh National University of Singapore, Singapore	Gromov-Wasserstein Problem: Non-convexity, Semidefinite Relaxations, and Gradient Flows

Name and Affilliation	Talk Title
Gabriele Steidl Technische Universität Berlin, Germany	Adapting Noise to Data by Quantile Learning
Lihan Wang National University of Singapore , Singapore	Wasserstein Gradient Flow of Maximum Mean Discrepancy with Energy Kernel
Liu Yang National University of Singapore, Singapore	Towards Large Scientific Learning Models with In-Context Operator Networks (ICON)
Xiu Yang Lehigh University, USA	Accelerate Neural Operators by Quantum Computing
Hongkai Zhao Duke University, USA	What can One Expect when Training Neural Networks to Solve PDEs?