

Computer Science

Session **K**

Room: 113 Spalding Lab

1:00 - 1:20 PM	Amrita Pasupathy Caltech <i>Candace Rypisi SURF Fellow</i>	Synthetic data-driven knowledge integration for large language models	Yisong Yue <i>Professor of Computing and Mathematical Sciences</i> Lauren Hyoseo Yoon <i>Graduate Student in Computation and Neural Systems</i>
1:20 - 1:40 PM	Nicholas D. Abram Howard University <i>Information Science and Technology (IST) Venerable WAVE Fellow</i>	STRATA: An agentic training architecture for scientific task automation	Yisong Yue <i>Professor of Computing and Mathematical Sciences</i> Yisong Yue <i>Professor of Computing and Mathematical Sciences</i>
1:40 - 2:00 PM	Trevor B. Chen Caltech <i>Robert K. and Alice L. Roney SURF Fellow</i>	Discovering interpretable visual features in high-fidelity generative models	Pietro Perona <i>Allen E. Puckett Professor of Electrical Engineering</i> Ilona Demler <i>Graduate Student in Computing and Mathematical Sciences</i>
2:00 - 2:20 PM	Xinran Xie Caltech <i>Carolyn Ash SURF Fellow</i>	Streaming state-space hybrid mesh recovery model	Pietro Perona <i>Allen E. Puckett Professor of Electrical Engineering</i> Ilona Demler <i>Graduate Student in Computing and Mathematical Sciences</i>
2:20 - 2:40 PM	Oscar Jenner KTH Royal Institute of Technology	Strategic risk seeking in games	Eric V. Mazumdar <i>Assistant Professor of Computing and Mathematical Sciences and Economics</i> Nicolas Lanzetti <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i> Boris Velasevic <i>Graduate Student in Computing and Mathematical Sciences</i>
2:40 - 2:50 PM	BREAK		

2:50 - 3:10 PM	Jianxiang Li Peking University	Neural operator splitting for Monte Carlo fluid simulation	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Xi Deng <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i> Hong Chul Nam
3:10 - 3:30 PM	William H. Adkisson Washington University in St. Louis	GPU acceleration of TorchLean, a formally verified neural network training library in Lean 4	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Robert Joseph George <i>Graduate Student in Computing and Mathematical Sciences</i>
3:30 - 3:50 PM	Ryan L. Hsiang National Taiwan University <i>BaBar SURF Fellow</i>	Verifying neural operators	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Robert Joseph George <i>Graduate Student in Computing and Mathematical Sciences</i>
3:50 - 4:10 PM	Jucheng Shen Rice University	Length generalization in continuous diffusion language models with spectral representations and neural operators	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Robert Joseph George <i>Graduate Student in Computing and Mathematical Sciences</i> Jiachen Yao <i>Graduate Student in Computing and Mathematical Sciences</i>
4:10 - 4:30 PM	Caroline Zhang Duke University	Transfer learning for AI-assisted mathematical discovery in combinatorial group theory	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Robert Joseph George <i>Graduate Student in Computing and Mathematical Sciences</i>
4:30 - 4:50 PM	Ruibao Wang Delft University of Technology	Coarse-to-fine 3D MRI reconstruction via resolution-agnostic neural operators	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Valentin Duruisseaux <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i>