Computer Science

Session **G**

Room: **109 Jorgensen**

1:00 - 1:20 PM	**Ansh V. Desai** University of Delaware	Neural Operators for Dissipative Relativistic Magnetohydrodynamics	Anima Anandkumar *Bren Professor of Computing and Mathematical Sciences* Elias R. Most *Assistant Professor of Theoretical Astrophysics* Chuwei Wang *Graduate Student in Computing and Mathematical Sciences* Valentin Duruisseaux *Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences*
1:20 - 1:40 PM	**Jiayi Zhou** Peking University	Shape Optimization With Neural Operators	Anima Anandkumar *Bren Professor of Computing and Mathematical Sciences* Valentin Duruisseaux *Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences*
1:40 - 2:00 PM	**Ryan L. Hsiang** National Taiwan University *BaBar SURF Fellow*	LeanLibrary: A Unified Framework for Theorem Proving in Lean 4	Anima Anandkumar *Bren Professor of Computing and Mathematical Sciences* Robert Joseph George *Graduate Student in Computing and Mathematical Sciences*
2:00 - 2:20 PM	**Minhyuk Kang** Imperial College London	OrbNet-Materials: Orbital-based GNN for Materials Properties Prediction	Anima Anandkumar *Bren Professor of Computing and Mathematical Sciences* Beom Seok Kang *Graduate Student in Chemical Engineering*

Time	Speaker	Title	Mentors
2:20 - 2:40 PM	**Taeyang Park**	Partially Observable Model-Based Reinforcement Learning for Drag Reduction in Compressible Turbulent Flows	Anima Anandkumar *Bren Professor of Computing and Mathematical Sciences* Myrl Marmarelis *Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences*
2:40 - 2:50 PM	**BREAK**		
2:50 - 3:10 PM	**Edgar A. Larios** ITESM (Monterrey Campus)	Discovery and Parameter Estimation of PDEs Using Physics-informed Neural Networks (PINNs)	Franca Hoffmann *Assistant Professor of Computing and Mathematical Sciences* Aras Bacho *Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences* Kathrin H. Hellmuth *Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences*
3:10 - 3:30 PM	**Cristian D. Peña** Florida Atlantic University *Information Science and Technology (IST) Venerable WAVE Fellow*	Optimal Experimental Design for Jupiter's Radiation Belt	Franca Hoffmann *Assistant Professor of Computing and Mathematical Sciences* Aras Bacho *Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences* Kathrin H. Hellmuth *Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences*
3:30 - 3:50 PM	**Owen M. Tolbert** University of Maryland, Baltimore County *Information Science and Technology (IST) Venerable WAVE Fellow*	A Survey of Data-Driven Techniques for Network Inference	Andrew M. Stuart *Bren Professor of Computing and Mathematical Sciences* George Stepaniants *Postdoctoral Scholar Fellowship Trainee in Computing and Mathematical Sciences*
3:50 - 4:10 PM	**Zirui Wang** Peking University	Blow-up Scenarios in the Keller-Segel System	Thomas Y. Hou *Charles Lee Powell Professor of Applied and Computational Mathematics* Xiang Qin *Graduate Student in Applied and Computational Mathematics*

4:10 - 4:30 PM	**Lennart A. Scholz** Leibniz University Hannover	Kernelized Stable Fluids for Simulating Physically Accurate Solutions	Houman Owhadi *Professor of Applied and Computational Mathematics and Control and Dynamical Systems* Aras Bacho *Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences*
4:30 - 4:50 PM	**Frank Y. Xiao** *Arthur Rock SURF Fellow*	Coarse-to-Fine Diffusion Language Models	Pietro Perona *Allen E. Puckett Professor of Electrical Engineering* Rogerio Aristida Guimaraes *Graduate Student in Computation and Neural Systems*