Caltech
Student-Faculty Programs

Computer Science

Session J

Room: 128 Baxter

1:00 - 1:20 PM	***Hongqiao Chen*** *Hannah Bradley SURF Fellow*	How do multimodal language models reason about space and time?	Pietro Perona *Allen E. Puckett Professor of Electrical Engineering* Georgia Gkioxari *Assistant Professor of Computing and Mathematical Sciences and Electrical Engineering; William H. Hurt Scholar* Raphaela H. Kang *Graduate Student in Computation and Neural Systems*
1:20 - 1:40 PM	***Olivia Y. Wang*** *The Associates SURF Fellow*	Rigorous investigation of human baselines towards more comprehensive VQA benchmarks and robust VLMs	Pietro Perona *Allen E. Puckett Professor of Electrical Engineering* Katelyn Haly *Graduate Student in Neurobiology* Raphaela H. Kang *Graduate Student in Computation and Neural Systems*
1:40 - 2:00 PM	***Annika S. Viswesh***	Knowledge graph-informed predictions of multigene transcriptional profiles	Pradeep Ravikumar *Professor of Machine Learning, Carnegie Mellon University* Chandler Squires *Postdoctoral Research Associate in Machine Learning, Carnegie Mellon University* Frederick D. Eberhardt *Professor of Philosophy*
2:00 - 2:20 PM	***Ritvik S. Teegavarapu***	Gibbs conditioning principles for Markovian discrete-time interacting particle systems on regular graphs	Kavita Ramanan *Professor of Applied Mathematics, Brown University* Sarath Yasodharan *Assistant Professor of Industrial Engineering and Operations Research, Brown University* I-Hsun Chen *Graduate Student in Applied Mathematics, Brown University* Franca Hoffmann *Assistant Professor of Computing and Mathematical Sciences*

2:20 - 2:40 PM	***Aaron M. Dumas***	Safe offline reinforcement learning in noisy environments with digital twin-supported medical decision making	Rose Yu *Associate Professor of Computer Science and Engineering, University of California, San Diego* Aysin Tumay *Graduate Student in Computer Science and Engineering, University of California, San Diego* Eric V. Mazumdar *Assistant Professor of Computing and Mathematical Sciences and Economics*
2:40 - 3:00 PM	***Justin Luo*** *Carl F. Braun SURF Fellow*	Task-aware mesh decomposition for Sim2Real robotics learning	Hao Su *Associate Professor of Computer Science, University of California, San Diego* Gunter Niemeyer *Teaching Professor of Mechanical and Civil Engineering*
3:00 - 3:10 PM	***BREAK***		
3:10 - 3:30 PM	***Ellie J. Wang***	Implementing finite element modeling in the MS-Human-700 musculoskeletal model	Yanan Sui *Associate Professor of Computer Science, Tsinghua University* Joel W. Burdick *Richard L. and Dorothy M. Hayman Professor of Mechanical Engineering and Bioengineering; Research Scientist, JPL*
3:30 - 3:50 PM	***Erica Wang*** *Mellon Mays SURF Fellow*	Modular motion tokenization for high-dimensional motor control: A case study on MS-Human-700	Yanan Sui *Associate Professor of Computer Science, Tsinghua University* Adam C. Wierman *Carl F Braun Professor of Computing and Mathematical Sciences*
3:50 - 4:10 PM	***Yingyin Tan***	Adaptive modeling and exogenous support for neuromotor-impaired musculoskeletal models	Yanan Sui *Associate Professor of Computer Science, Tsinghua University* Gunter Niemeyer *Teaching Professor of Mechanical and Civil Engineering*
4:10 - 4:30 PM	***Gautham Kappaganthula*** *Citadel Global Fixed Income SURF Fellow*	Learning affine maps for an amortized noise-agnostic filter	Andrew M. Stuart *Bren Professor of Computing and Mathematical Sciences* Bohan Chen *Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences*