

Computer Science

Session **G**

Room: 127 Baxter

10:30 - 10:50 AM	Zeynep Goktepe <i>Ms. Miaomiao Liu and Mr. Lei Feng SURF Fellow</i>	Growing cells in computers: Surrogate modeling of ion- channel sensitivity in human cortical neurons	Costas Anastassiou <i>Visiting Associate in Computing and Mathematical Sciences</i> Nooshin Abdollahi <i>Postdoctoral Fellow, The Hospital for Sick Children</i>
10:50 - 11:10 AM	Ishita Banerjee <i>The Associates SURF Fellow</i>	Developing a computational optimization framework for cell-class-specific electrical stimulation	Costas Anastassiou <i>Visiting Associate in Computing and Mathematical Sciences</i> Philip Wong <i>Postdoctoral Scientist, Cedars-Sinai Medical Center</i>
11:10 - 11:30 AM	Maggie Y. Bai <i>Arthur R. Adams SURF Fellow</i>	Shaping bio-realistic spiking neural network dynamics via gradient-based optimization of connectivity parameters	Costas Anastassiou <i>Visiting Associate in Computing and Mathematical Sciences</i> Shayan Farzad <i>Postdoctoral Scientist in Neurosurgery, Cedars-Sinai Medical Center</i>
11:30 - 11:50 AM	Christian W. Cavener	Automated body composition analysis for cardiac risk prediction in Duchenne muscular dystrophy	Shreyas S. Vasanawala <i>Professor of Radiology; Director of MRI, Stanford Children's Hospital</i> Konstantin Zuev <i>Teaching Professor of Computing and Mathematical Sciences</i>
11:50 AM - 1:00 PM	LUNCH		
1:00 - 1:20 PM	Alya Kurt	GPU-accelerated multicoil Bloch simulations for nonlinear inversion in MRI reconstruction and quantitative mapping	Shreyas S. Vasanawala <i>Professor of Radiology; Director of MRI, Stanford Children's Hospital</i> Carlos A. Castillo Passi <i>Postdoctoral Scholar in Radiological Sciences, Stanford University</i> Daniel Ennis <i>Professor of Radiology and Bioengineering, Stanford University</i> Andres Collazo <i>Director of Biological Imaging Facility</i>

1:20 - 1:40 PM	Clara Yu	Persona- and urgency-driven sycophancy in frontier LLMs	Ankit Sakhuja <i>Associate Professor of AI and Human Health, Icahn School of Medicine at Mount Sinai</i> Nimay Hazare <i>Associate Researcher, Icahn School of Medicine at Mount Sinai</i> Shinsuke Shimojo <i>Gertrude Baltimore Professor of Experimental Psychology</i>
1:40 - 2:00 PM	Richard Hoffmann	Physical plausibility emerges from resilience across diverse noise paths in video diffusion models	Yilun Du <i>Assistant Professor of Computer Science, Harvard University</i> Sarah Liaw <i>Graduate Student in Computer Science, Harvard University</i> Ruojin Cai <i>Kempner Research Fellow in Computer Science, Cornell University</i> Georgia Gkioxari <i>Assistant Professor of Computing and Mathematical Sciences and Electrical Engineering; William H. Hurt Scholar</i>
2:00 - 2:20 PM	Divan I. Mejia Gonzalez	Enhancing predictive generative policies with learned rewards	Yilun Du <i>Assistant Professor of Computer Science, Harvard University</i> Haldun Balim <i>Graduate Student in Electrical Engineering, Harvard University</i> Adam C. Wierman <i>Carl F Braun Professor of Computing and Mathematical Sciences</i>
2:20 - 2:30 PM	BREAK		
2:30 - 2:50 PM	Seokhyun Chin	Predicting isotope effects with orbital-based deep learning	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> John M. Eiler <i>Robert P. Sharp Professor of Geology and Geochemistry</i> Beom Seok Kang <i>Graduate Student in Chemical Engineering</i> Simon Andren <i>Graduate Student in Geochemistry</i>

2:50 - 3:10 PM	Arimitsu Horikawa-Strakovsky	Learning exact exchange for Kohn-Sham density functional theory	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Maurice Hanisch <i>Graduate Student in Computing and Mathematical Sciences</i> Danish Khan <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i>
3:10 - 3:30 PM	Hudson Liu <i>Class of '52 70th Reunion SURF Fellow</i>	Physics-informed 3D shape generation using Laplacian preconditioned guidance	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Xinyi Li <i>Graduate Student in Computing and Mathematical Sciences</i>
3:30 - 3:50 PM	Siqi Liu	Walk-on-Boundary supervision for linear elasticity neural operators	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Xi Deng <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i>
3:50 - 4:10 PM	Tuyen T. Nguyen	Faster electron density prediction with Fourier neural operator	Anima Anandkumar <i>Bren Professor of Computing and Mathematical Sciences</i> Maurice Hanisch <i>Graduate Student in Computing and Mathematical Sciences</i>