

Time	Event	Location
Monday, July 7th, 2025		
9:00 am to 9:30 am	Welcome and coffee	Phillips Auditorium
9:30 am to 10:00 am	Opening Remarks: Cecilia Garraffo (Director of AstroAI)	Phillips Auditorium
10:00 am to 11:30 am	<b>Keynote Speaker:</b> Bill Freeman (Massachusetts Institute of Technology) <b>Title:</b> Exploiting the independence of the image from the sensor	Phillips Auditorium
11:30 am to 12:00 pm	Break	Phillips Auditorium
12:00 pm to 1:00 pm	<b>Contributed Talks: Cosmology</b> Speaker 1: Ashod Khederlarian (Deep Learning Photometric Redshifts for Roman) Speaker 2: Jack Grossman (A Diffusion-Based Machine Learning Model to Infer the Neutrino Effects from Large Scale Structure)	Phillips Auditorium
1:00 pm to 2:00 pm	Lunch	Lobby/Atrium
2:00 pm to 2:30 pm	<b>Spotlight Speaker:</b> Alan Hsu (Harvard University) <b>Title:</b> Reconstructing Galaxy Cluster Mass Maps using Score-based Generative Modeling	Phillips Auditorium
2:30 pm to 3:30 pm	<b>Contributed Talks: Disks/Exoplanets</b> Speaker 1: Eddie Berman (Augmenting Spectra Emulation with Deep Evidential Regression for Biomarkers Retrieval) Speaker 2: Sebastian Ratzenboeck (Learning with Gaps: A Domain-Adaptive SBI Framework for Mapping Young Stars) Speaker 3: Sayed Shafaat Mahmud (Inferring Planet and Disk Parameters Using a Variational Autoencoder)	Phillips Auditorium
3:30 pm to 5:00 pm	<b>Poster Session</b> Poster 1: Lidiya Ahmed (Machine Learning for Faraday Cup Calibration) Poster 2: Srinadh Reddy Bhavanam (MargFormer: Photometric Classification...) Poster 3: Antoine Bourdin (Diffusing Galaxies onto Dark Matter Fields...) Poster 4: Rocco Di Tella (Building Honest Agents Through Introspection...) Poster 5: Steven Dillmann (Representation Learning for X-ray Transients) Poster 6: Rosa A Gonzalez (Using AI to probe	Library

Time	Event	Location
	<p>globular cluster systems...)</p> <p>Poster 7: Hossein Hatamnia (AI-Driven Methods for Cosmic Web Environments)</p> <p>Poster 8: Bradley Hutchinson (Unsupervised Learning for Photometric Surveys)</p> <p>Poster 9: Baimam Boukar Jean Jacques (Explainable Asteroid Classification)</p> <p>Poster 10: Naysha Jain (Exospore: Detection of Microbial Life)</p> <p>Poster 11: Rintaro Kanaki (Modeling Spatial Selection Effects in Photometric Redshifts)</p> <p>Poster 12: Fulya Kiroglu (When Stars Collide: Neural Network Insights)</p> <p>Poster 13: Christina X. Liu (Exoplanet Habitability via Machine Learning)</p> <p>Poster 14: Kiera McCormick (Evaluating Large Language Models in Astronomy)</p> <p>Poster 15: Carolyn M Mill (Investigation of Survey Systematics)</p> <p>Poster 16: Lorenzo Monti (CLiMBing the Galactic Ladder...)</p> <p>Poster 17: Drew Oldag (Hyrax)</p> <p>Poster 18: Andrea Persici (Blended Source Detection via Max-Tree)</p> <p>Poster 19: Fiona Redmen (Variational Auto-Encoders for X-Ray Spectra)</p> <p>Poster 20: Ashwini Nagaraj Shenoy (Solar Flare Forecasting...)</p> <p>Poster 21: Abu Bucker Siddik (Pulsar Parameter Estimation via Deep Learning)</p> <p>Poster 22: Adiba Amira Siddiqa (Detecting Dark Star Candidates)</p> <p>Poster 23: Jared Sofair (Spectrophotometric Inference of Stellar Parameters)</p> <p>Poster 24: Nicolò Pinciroli Vago (X-ray Spectral Classification)</p> <p>Poster 25: Akash Vani (Emulator for Galaxy Formation Models)</p> <p>Poster 26: Jennifer Yee (LensNet: Microlensing Event Discovery)</p> <p>Poster 27: Dmitrii Zagorulia (Morphological Classification of Jets)</p>	
5:30 pm to 7:30 pm	Reception	Library

Time	Event	Location
Tuesday, July 8th, 2025		
9:00 am to 9:30 am	Coffee	Phillips Auditorium
9:30 am to 11:00 am	<b>Keynote Speaker:</b> David Alvarez-Melis (Harvard University) <b>Title:</b> Data First: How Composition, Labels, and Adaptation Shape Model Behavior	Phillips Auditorium
11:00 am to 11:30 am	Break	Phillips Auditorium
11:30 am to 12:30 pm	<b>Contributed Talks: Miscellaneous</b> Speaker 1: Yi Yang (AstroAgent: An Intelligent Assistant...) Speaker 2: Markus Michael Rau (Hybrid AI-MCMC Approach) Speaker 3: Dimitrios Tanoglidis (Multimodal Models in Astrophysics)	Phillips Auditorium
12:30 pm to 1:30 pm	Lunch	Lobby/Atrium
1:30 pm to 2:00 pm	<b>Spotlight Speaker:</b> Nayantara Mudur (Harvard University) <b>Title:</b> Probing Generative Models for Inference in Cosmology	Phillips Auditorium
2:00 pm to 3:00 pm	Demofest (Seamless Astronomy)	Library
3:00 pm to 3:30 pm	Hackathon Pitches	Library
3:30 pm to 5:00 pm	<b>Diffusion Models Tutorial:</b> Philipp Frank (Stanford University) <b>Title:</b> Probabilistic Inference in Astrophysics...	Phillips Auditorium

Time	Event	Location
Wednesday, July 9th, 2025		
9:00 am to 9:30 am	Coffee	Phillips Auditorium
9:30 am to 11:00 am	<b>Keynote Speaker:</b> Ashley Villar (Harvard University) <b>Title:</b> TBA	Phillips Auditorium
11:00 am to 11:30 am	Break	Phillips Auditorium
11:30 am to 1:00 pm	<b>Keynote Speaker:</b> Elisabeth Sylvan (Brown University / RISD / TUM) <b>Title:</b> Responsible AI in Research	Phillips Auditorium
1:00 pm to 2:00 pm	Lunch	Lobby/Atrium
2:00 pm to 2:30 pm	<b>Spotlight Speaker:</b> Kaylee De Soto (Harvard University) <b>Title:</b> TBA	Phillips Auditorium
2:30 pm to 3:30 pm	<b>Contributed Talks: Galaxies/Cosmology</b> Speaker 1: Aryana Haghjoo (Diffusion Models for Galaxy Spectra) Speaker 2: Luca Gomez Bachar (Error-Bounded Neural Networks) Speaker 3: Martin Ying (Stellar Evolution Emulator)	Phillips Auditorium
3:30 pm to 5:00 pm	<b>SBI Tutorial:</b> Ashley Villar (Harvard) <b>Title:</b> TBA	Phillips Auditorium

Time	Event	Location
Thursday, July 10th, 2025		
9:00 am to 9:30 am	Coffee	Phillips Auditorium
9:30 am to 11:00 am	<b>Keynote Speaker:</b> Viviana Acquaviva (CUNY / Columbia) <b>Title:</b> Interpretability tools in scientific ML	Phillips Auditorium
11:00 am to 11:30 am	Break	Phillips Auditorium
11:30 am to 12:30 pm	<b>Contributed Talks: AGN &amp; Lensing</b> Speaker 1: Ingrid V. Daza Perilla (Neural Posterior Estimation...) Speaker 2: Sogol Sanjaripour (Unsupervised Galaxy SED Learning) Speaker 3: Nandini Sahu (AI-Accelerated Lens Modeling)	Phillips Auditorium
12:30 pm to 1:30 pm	Lunch	Lobby/Atrium
1:30 pm to 2:00 pm	<b>Spotlight Speaker:</b> Matthew O'Callaghan (Cambridge) <b>Title:</b> Robust Simulation-Based Inference...	Phillips Auditorium
2:00 pm to 3:00 pm	<b>Contributed Talks: Stellar</b> Speaker 1: Ilay Kamai (Spectroscopy & Photometry with NN) Speaker 2: Paul Gregory (Transformer-Based TESS Classifier) Speaker 3: Pablo Mercader Perez (Starspot Map Reconstruction)	Phillips Auditorium
3:00 pm to 5:00 pm	<b>Interpretability Tutorial:</b> Core Park (Harvard) <b>Title:</b> Exploring Compositional Generalization...	Pratt

Time	Event	Location
Friday, July 11th, 2025		
9:00 am to 9:30 am	Coffee	Phillips Auditorium
9:30 am to 11:00 am	<b>Keynote Speaker:</b> Marc Huertas-Company (IAC / University of Paris) <b>Title:</b> Representation learning & simulation-based inference	Phillips Auditorium
11:00 am to 11:30 am	Break	Phillips Auditorium
11:30 am to 12:30 pm	<b>Contributed Talks: High Energy/Time Domain</b> Speaker 1: Ann-Kathrin Schuetz (From LEGEND to Binary Black Hole)... Speaker 2: Srinadh Reddy Bhavanam (Deep Learning for Compton)... Speaker 3: Ole Koenig (Modeling X-ray Photon Pile-Up with ML)	Phillips Auditorium
12:30 pm to 1:30 pm	Lunch	Lobby/Atrium
1:30 pm to 2:00 pm	<b>Spotlight Speaker:</b> Daniel Muthukrishna (MIT, AstroAI) <b>Title:</b> Causally Motivated Foundation Models...	Phillips Auditorium
2:00 pm to 5:00 pm	Hackathon	Library / Fishbowl / Pratt / Lobby / B-105 / B-106