

Session Program

31 August 2026 to 4 September 2026



**MACHINE LEARNING
FOR ASTROPHYSICS**

3RD EDITION VALLETTA, 31 AUG - 4 SEP, 2026

International Conference on Machine Learning for Astrophysics 3rd Ed. - ML4ASTRO3

Observational Surveys

University of Malta, Aula Prima
Valletta Campus, St Paul Street Valletta VLT 1216, Malta

Monday 31 August

09:50

Observational Surveys: I

Session | **Location:** University of Malta, Aula Prima, Valletta Campus, St Paul Street Valletta VLT 1216, Malta

09:50–10:40

[INVITED] Deep Learning the Physics of Galaxy Formation Using Large Observational Surveys

Speaker

Malgorzata Siudek

10:40–11:00

What Comparing HST and JWST Images Reveals About Stellar Clusters Without Labels

Speaker

Nils Guillaume Francois Dani Candebat

11:00–11:20

J-Patch: A Transformer architecture for missing data imputation and anomaly detection in photometric SEDs

Speaker

Antonio Hernán Caballero

11:20

11:40

Observational Surveys: II

Session | **Location:** University of Malta, Aula Prima, Valletta Campus, St Paul Street Valletta VLT 1216, Malta

11:40–12:00

Rethinking Gaia XP Spectra for Machine Learning: Truncation, Basis Design, and Functional Methods

Speaker

Aidas Medžiūnas

12:00–12:20

Multimodal contrastive learning for white dwarf classification with Gaia

Speaker

Xabier Pérez Couto

12:20–12:40

Koexai's AI Pipelines for Astrophysical Data Analysis: from Supernovae to the Cosmic Web

Speaker

Luca Naso

12:40

14:00

Observational Surveys: III

Session | **Location:** University of Malta, Aula Prima, Valletta Campus, St Paul Street Valletta VLT 1216, Malta

14:00–14:40

[INVITED] Astronomical Image Denoising

Speaker

Pierpaolo Brutti

14:40–15:00

STRADAViT: Self-Supervised Transfer for Radio Astronomy Vision Transformers**Speaker**

Andrea DeMarco

15:00–15:20

Quantifying Data Curation Effects in Vision Transformers for Radio Astronomy Imaging**Speaker**

Hayley Camilleri

15:20–15:40

Self-Supervised Neural Networks for High-Resolution Radio Imaging**Speaker**

Shunyuan Mao

15:40

16:10

Observational Surveys: IV**Session** | **Location:** University of Malta, Aula Prima, Valletta Campus, St Paul Street Valletta VLT 1216, Malta

16:10–16:30

Multi-Wavelength AGN Identification and Physical Parameter Estimation using machine learning in DESI survey.**Speaker**

Dhavala Sai Srinivas

16:30