

## **Session Program**

**5-8 May 2026**



## **AI for Gravitational Waves Workshop @ CERN**

### ***Posters***

CERN, 40/S2-A01 - Salle Anderson

## Wednesday 6 May

15:10

### Posters: Posters and coffee

**Session** | **Location:** CERN, 40/S2-A01 - Salle Anderson

15:10–16:20

#### How effectively can Neural Posterior Estimation infer the Neutron Star Equation of State?

**Speaker**

Valéria Carvalho

15:10–16:20

#### Pinpointing PTA Single Sources: Sequential SBI for Sky Localization

**Speaker**

Ludovica Carbone

15:10–16:20

#### How Many Noise Realizations Do We Really Need? Quantifying Sensitivity Metric Robustness for ML-Based Gravitational-Wave Searches

**Speaker**

Alexandra Eleni Koloniari

15:10–16:20

#### Early Detection of Sudden Beam Loss at SuperKEKB using Time-Series Anomaly Detection

**Speaker**

Philipp Horak

15:10–16:20

#### Enhancing DeepClean: Towards Scalable and Adaptive Gravitational-Wave Denoising

**Speaker**

Sharvari Tatachar

15:10–16:20

#### Plug-and-Play methods for reconstructing polarizations of gravitational wave signals

**Speaker**

Thomas SAINRAT

15:10–16:20

#### Machine Learning Applications in Numerical Relativity Simulations

**Speaker**

William Cook

15:10–16:20

#### GravCloud: A stacked LSTM-Pointcloud Framework for LIGO Glitch Classification

**Speaker**

Maria Theodora Folina

15:10–16:20

#### Identifying spacetimes using neural networks

**Speaker**

Estuti Shukla

15:10–16:20

**Improved searches for nanohertz gravitational wave background anisotropies with simulation-based inference****Speaker**

Anna-Malin Lemke

15:10–16:20

**The PEARLS project: Precision in Energy-aware AI Research for Low-carbon Solutions****Speaker**

Josephine Prochnow

15:10–16:20

**Deploying GeoAI for Siting Cosmic Explorer****Speaker**

Warren Bristol

15:10–16:20

**Isometric embeddings for gravitational wave template banking****Speaker**

Alexandra Wernersson

15:10–16:20

**Calibrated GW Bayes Factors in real noise****Speaker**

Alexandre Göttel

15:10–16:20

**From Fast Radio Bursts to Gravitational Waves: Adapting Multi-Modal CNNs for Robust, Low-Latency Transient Detection****Speaker**

Rizchel Masong

15:10–16:20

**The Quantum Leap: A Quantum Machine Learning Approach for Detection of Gravitational Waves in the Context of LISA Space Mission****Speaker**

Maria Isfan

15:10–16:20

**The Shape of Eccentricity: Rapid Classification of Eccentric Binaries with the Wavelet Scattering Transform****Speaker**

Dr Priscilla Canizares

15:10–16:20

**Accurate and efficient simulation-based inference for massive black-hole binaries with LISA****Speaker**

Alice Spadaro

15:10–16:20

**Simultaneous Misalignment and Mode Mismatch Sensing in Optical Cavities Using Intensity-Only Measurements**

16:20

**Speaker**

Liu Tao