

## Tuesday 25/11

### MORNING

#### 09:30 AM Theory of Machine Learning - 9:30 AM

|  |       |            |  |
|--|-------|------------|--|
|  | Paul  | Liautaud   | Minimax Adaptive Online Nonparametric Regression over Besov Spaces           |
|  | Lucas | Morisset   | Non-Asymptotic Analysis Of Data Augmentation For Precision Matrix Estimation |
|  | Dario | Shariatian | Algorithm- and Data-Dependent Generalization Bounds for Diffusion Models     |
|  | Fares | El Khoury  | Learning Theory for Kernel Bilevel Optimization                              |

#### 11:30 AM ML Methods and Algorithms - 11:30 AM

|  |            |               |   |
|--|------------|---------------|---|
|  | Julie      | Mordacq       | T-REGS: Minimum Spanning Tree Regularization for Self-Supervised Learning               |
|  | Adarsh     | Jamadandi     | Memorization in Graph Neural Networks   |
|  | Anna       | Van Elst      | Robust Distributed Estimation: Extending Gossip Algorithms to Ranking and Trimmed Means |
|  | Marguerite | Petit-Talamon | Variational Inference with mixture of isotropic Gaussian                                |

### AFTERNOON

#### 2:00 PM Deep Learning - 2:00 PM

|  |           |          |  |
|--|-----------|----------|--|
|  | Raphaël   | Urfin    | Why Diffusion Models Don't Memorize: The Role of Implicit Dynamical Regularization in Training |
|  | Theodoros | Kouzelis | Boosting Generative Image Modeling via Joint Image-Feature Synthesis                           |
|  | Thibaut   | Loiseau  | Alligat0R: Pre-Training through Covisibility Segmentation for Relative Camera Pose Regression  |
|  | Anne      | Gagneux  | On the Closed-Form of Flow Matching: Generalization Does Not Arise from Target Stochasticity   |

## Wednesday 26/11

### MORNING

#### 09:30 AM Probabilistic Methods - 9:30 AM

|  |             |                  |   |
|--|-------------|------------------|---|
|  | Ferdinand   | Genans           | Stochastic Optimization in Semi-Discrete Optimal Transport: Convergence Analysis and Minimax Rate           |
|  | Reuben      | Dorent           | Connecting Jensen–Shannon and Kullback–Leibler Divergences: A New Bound for Representation Learning         |
|  | Elen, Vahan | Vardanyan, Arsen | Assessing the quality of denoising diffusion models in Wasserstein distance: noisy score and optimal bounds |
|  | Antonio     | Ocello           | Wasserstein convergence of critically damped Langevin diffusions  |

#### 11:30 AM ML Methods and Algorithms 2 - 11:30 AM

|  |         |          |  |
|--|---------|----------|--|
|  | Nina    | Vesseron | Sample and Map from a Single Convex Potential using Conjugate Generative Moment Measures |
|  | Luiz    | Chamon   | Learning (Approximately) Equivariant Networks via Constrained Optimization               |
|  | Maxence | Ernault  | Learning long range dependencies through time reversal symmetry breaking                 |
|  | Félix   | Chavelli | Toward Interpretable Evaluation Measures for Time Series Segmentation                    |

### AFTERNOON

#### 2:00 PM Applications ML & Statistics - 2:00 PM

|  |        |           |  |
|--|--------|-----------|--|
|  | Pierre | Marza     | THUNDER: Tile-level Histopathology image UNDERstanding benchmark                               |
|  | Simone | Azeglio   | Decomposing stimulus-specific sensory neural information via diffusion models                  |
|  | Lise   | Le Boudec | ENMA: Tokenwise Autoregression for Continuous Neural PDE Operators                             |
|  | Noémie | Bergues   | Template-Guided 3D Molecular Pose Generation via Flow Matching and Differentiable Optimization |