Juliette Marrie

PhD student at Inria THOTH and NAVER LABS Europe

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- 2021- P.h.D, Inria THOTH × NAVER LABS Europe Advisors: Julien Mairal, Diane Larlus, Michael Arbel
- 2020-2021 M2 MVA: Mathematics, Vision, Learning, ENS Paris-Saclay, Double Degree Main courses: Optimization, Image analysis, Statistical learning.
- 2017-2021 Master's degree, Mines ParisTech Main courses: Applied Mathematics, Control Theory, Machine Learning, Statistics.
 - 2018 **Visiting student**, National University of Singapore Main courses: Constrained optimization, Deep Learning, Uncertainty Modelling in Al.
- 2015-2017 Preparatory classes, Lycée Blaise Pascal Orsay, MPSI-MP*
 - 2015 High school diploma with honors

Professional experience

- 2022- Inria THOTH × NAVER LABS Europe, P.h.D. Visual Representation Learning from Limiter and Heterogeneous Sources, Advisors: Julien Mairal, Diane Larlus, Michael Arbel
 - o 'SLACK: Stable Learning of Augmentations with Cold-start and KL regularization', CVPR 2023
 - o 'On Good Practices for Task-Specific Distillation of Large Pretrained Models', arXiv 2024
- 2021-2022 Inria THOTH, Research engineer
 - 2021 Philips Research France, Self-supervised learning on 3D medical images, Advisor: Antoine Olivier
 - Exploring state-of-the-art pre-training approaches for segmentation and classification.
 - O Adapting methods mostly developed for 2D natural images to 3D ultrasound data.
- 2020 2021 Weill Cornell Medicine / New York Genome Center Landau Lab, Cancer Genomics and Evolutionary Dynamics, Advisor: Dan Landau
 - $_{\odot}$ Exploring Bayesian methods for phylogenetic tree reconstruction from single-cell data.
 - O Extensive research for handling high levels of noise and missing values.
- 2019 2020 EPFL: Neural Concept, Bayesian optimization with Neural Network surrogates, Advisor: Pierre Barqué
 - Leading start-up in Geometric Deep Learning.
 - O Development of new optimization methods with direct exploitation for real use cases.

Language proficiency

French (native), English (fluent), Russian (upper-intermediate), Spanish (upper-intermediate)

Publications

- CVPR 2023 SLACK: Stable Learning of Augmentations with Cold-start and KL regularization Juliette Marrie, Michael Arbel, Diane Larlus, Julien Mairal
- On Good Practices for Task-Specific Distillation of Large Pretrained Visual Models TMLR 2024 Juliette Marrie, Michael Arbel, Julien Mairal, Diane Larlus

Scientific involvement

Teaching 'Kernel Methods' course at AMMI (African Masters of Machine Intelligence), 2023 and 2024.

Reviewing Reviewer at CVPR 2024

Hobbies

Music Cello - Member of Orchestre des Campus de Grenoble (OCG) for two years

Sports Judo, Ballet and partner dance (rock, salsa).