



# ARNAUD PANNATIER

PHD CANDIDATE IN ATTENTION-BASED MODELS

I am a PhD Candidate in Pr. François Fleuret's Machine Learning group (Idiap Research Institute/EPFL). My main research interests are deep learning architectures and their applications on High-Altitude Wind Nowcasting.

## EDUCATION

### PhD in Machine Learning

Innosuisse, with SkySoft ATM  
Idiap Research Institute / EPFL  
2020 - 2024

### Master in Computer Sciences and Engineering

Math Faculty, EPFL  
2017 - 2020

### Bachelor in Physics

Physics Faculty, EPFL  
2014 - 2017

## LANGUAGES

French: Native speaker  
English: Fluent  
German: Basic knowledge

## PUBLICATIONS

A. Pannatier, K. Matoba, F. Fleuret **Inference from Real-World Sparse Measurements under review at International Conference on Learning Representations (ICLR), 2024**

F. Mai, A. Pannatier, F. Fehr, H. Chen, F. Marelli, F. Fleuret, J. Henderson **HyperMixer: An MLP-based Low Cost Alternative to Transformers**. In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL)*, 2023.

A. Pannatier, R. Picatoste, and F. Fleuret. **Efficient Wind Speed Nowcasting with GPU-Accelerated Nearest Neighbors Algorithm**. In *Proceedings of the SIAM International Conference on Data Mining (SDM)*, 2022.

A. Pannatier **A Control Plane in Time and Space for Locality-Preserving Blockchains** In *Master Thesis, Decentralized Distributed Systems Laboratory (DEDIS), EPFL, 2020*  
**Price: Kudelski Award**

## TEACHING EXPERIENCE

### Teaching Assistant

- Advanced Analysis 1-2 Pr. Stubbe, 2016, 2017, 2018
- Analysis 2 Pr Buffoni, 2018
- Advanced Analysis 3 Pr. Krieger, 2018
- Introduction à l'apprentissage automatique Pr. Liebling, 2020, 2023
- Deep Learning Pr. Fleuret, 2021, 2022
- Information, Computation, Communication Pr. Chappelier, 2020, 2022, 2023

### Substitute Math Teacher

Lycée Collège de la Planta  
2019

## WORK EXPERIENCE

### Software engineer

Caelum Fintech SA, Technopôle  
2018 - 2020 (Part time)

## HOBBIES & INTEREST

### Hiking

Hiked from home (VS/CH) to Santiago de Compostella (ES)  
2300 km in 83 days (April 2019 - July 2019)

### Chess

Treasurer of the Union Valaisanne des Échecs (UVE-WSB)  
Play with "Sion 1" (1st League, previously League B)  
Ex-Captain of Chess Team "Valais 2" (2nd league)

## INFORMATIONS

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Born September 20, 1995, in Sion, Valais  
Married, two children (born 2022, 2023)