

PERSONAL INFORMATION

Vasilii Feofanov, Ph.D.
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Gender Male | Nationality Russian

WORK EXPERIENCE

2022 – Present Senior Research EngineerEmployer Huawei Noah's Ark Research Lab, France

Responsibility A senior member of a research team on time-series analysis and transfer learning.

Keywords Forecasting, Time Series Foundation Models, Unsupervised Performance Prediction

2018 – 2021 Research ScientistEmployer Grenoble Computer Science Laboratory (LIG), France

Keywords Semi-supervised Multi-class Classification, Ensemble Learning, Feature Selection

May 2017 – July 2017 Research InternEmployer Inria Grenoble Research Center, France

Keywords HPC Job Scheduling, Feature Selection, Applied Machine Learning

2014 – 2016 Private Tutor

- Responsibility
- High school students: math, computer science
 - University students: calculus, probability, statistics

EDUCATION AND TRAINING

2018 – 2021 PhD in Machine LearningInstitution Grenoble Alpes University, FranceTopic Learning with Partially Labeled Data for Multi-class Classification and Feature Selection
Supervised by M.-R. Amini and E. Devijver, defended on September 29, 2021.**2017 – 2018 Master 2 in Data Science (First-Class Honors)**Institution Grenoble Alpes University, France**2016 – 2017 Master 1 in Computer Science**Institution Grenoble Alpes University, France**2012 – 2016 Bachelor in Applied Mathematics**Institution Saint-Petersburg State University, Russia

PERSONAL SKILLS

Mother tongue Russian

Other languages

	Listening	Reading	Spoken interaction	Spoken production	Writing
English	C1	C1	C1	C1	C1
French	B2	B2	B1/B2	B1/B2	B2

- Computer skills**
- Programming Languages: Python, R, C++, C, C#, Matlab, SQL
 - Data Science Tools: pytorch, scikit-learn, numpy, pandas, numba, cython, joblib, pyplot
 - Markup Languages: Latex, HTML(CSS)

PUBLICATIONS

- First or co-first author**
- V. Feofanov, R. Ilbert, M. Tiomoko et al. (2024). User-friendly Foundation Model Adapters for Multivariate Time Series Classification. *arXiv:2409.12264*.
- V. Feofanov, E. Devijver, M.R. Amini (2024). Multi-class Probabilistic Bounds for Majority Vote Classifiers with Partially Labeled Data. *JMLR*.
- R. Xie, A. Odonnat, V. Feofanov et al. (2024). MANO: Exploiting Matrix Norm for Unsupervised Accuracy Estimation Under Distribution Shifts. *arXiv:2405.18979*.
- V. Feofanov, M. Tiomoko, A. Virmaux (2023). Random Matrix Analysis to Balance between Supervised and Unsupervised Learning under the Low Density Separation Assumption. *ICML'23*, acc. rate 27.9%.
- V. Feofanov, E. Devijver, M.R. Amini (2022). Wrapper Feature Selection with Partially Labeled Data. *Applied Intelligence*.
- V. Feofanov, E. Devijver, M.R. Amini (2019). Transductive Bounds for the Multi-class Majority Vote Classifier. *AAAI'19*, oral, acc. rate 16.2%.
- Master supervisor**
- A. Odonnat, V. Feofanov & I. Redko (2024). Leveraging Ensemble Diversity for Robust Self-Training in the Presence of Sample Selection Bias. *AISTATS'24*, acc. rate 27.6%.
- Collaboration**
- S. Wen, V. Feofanov, J. Zhang (2024). Measuring Pre-training Data Quality without Labels for Time Series Foundation Models. *to appear*.
- R. Ilbert, A. Odonnat, V. Feofanov et al. (2024). SAMFormer: Unlocking the potential of transformers in time series forecasting with sharpness-aware minimization and channel-wise attention *ICML'24*, oral (144 / 2610), acc. rate 27.5%.
- R. Ilbert, M. Tiomoko, C. Louart et al. (2024). Analysing Multi-Task Regression via Random Matrix Theory with Application to Time Series Forecasting *arXiv:2406.10327*.
- R. Xie, A. Odonnat, V. Feofanov et al. (2024). Characterising Gradients for Unsupervised Accuracy Estimation under Distribution Shift *arXiv:2401.08909*.
- M.R. Amini, V. Feofanov, L. Pauletto et al. (2023). Self-training: A survey. *arXiv:2202.12040*.

ADDITIONAL INFORMATION

- Invited Talk** PFIA (2019), Accord DS Seminar (2023), LIG Aptikal Seminar (2024)
- Honours and awards** French Government Scholarship (2016), Huawei PRC Future Star Award (2024).
- Reviewing** NeurIPS: 2019, 2020 (top 10% best); ICML: 2021 (expert), 2023, 2024 (best award).
- Teaching** Statistical Analysis and Document Mining: Spring 2019, 2020, 2021.
- Modeling Seminars and Projects: Autumn 2019.
- Hackathon Competitions** "Data Science Game 2018". Qualification: 13th place over 128 teams. Final: 6th place over 20.