Curriculum vitae

PERSONAL INFORMATION

Vasilii Feofanov, Ph.D.

Arcs de Seine, 18-20 Quai du Point-du-Jour, 92100 Boulogne Billancourt

vasilii.feofanov@gmail.com

Gender Male | Nationality Russian

WORK EXPERIENCE

2022 – Present Senior Research Engineer

Employer 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 Scientist

Employer Grenoble Computer Science Laboratory (LIG), France

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

May 2017 – July 2017 Research Intern

Employer 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 Learning

Institution Grenoble Alpes University, France

Topic 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.*

R. Xie, A. Odonnat, V. Feofanov et al. (2024). MaNo: Exploiting Matrix Norm for Unsupervised Accuracy Estimation Under Distribution Shifts. *Accepted to NeurIPS'24.*

V. Feofanov, E. Devijver, M.R. Amini (2024). Multi-class Probabilistic Bounds for Majority Vote Classifiers with Partially Labeled Data. *JMLR.*

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 *Accepted to NeurIPS'24*.

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: 13^{th} place over 128 teams. Final: 6^{th} place over 20.