Francesco Lässig

PUBLICATIONS

Lässig, Francesco et al. "*Bio-Inspired, Task-Free Continual Learning through Activity Regularization*" *arXiv preprint arXiv:2212.04316* (2022).

Herzen, Julien, Francesco Lässig et al. "Darts: User-friendly modern machine learning for time series." Journal of Machine Learning Research 23, no. 124 (2022): 1-6.

INDUSTRY

Unit8, Zürich — *Data Scientist*

APRIL 2020 - FEBRUARY 2022

Developed a significant part of *Darts*, an open source library for time series forecasting, including statistical and deep learning-based forecasting tools. Presented *Darts* at the *EuroPython 2021* conference and the *PyData Global 2021* conference. During the time I worked on *Darts*, its GitHub page went from 0 to over 3.3k stars.

Built a ML-based predictive maintenance tool for a Swiss hydro power plant, all the way from exploratory data analysis and model development to backtesting and deployment.

Developed a demand forecasting solution for a Swiss manufacturer of laboratory and industry equipment which improved their existing forecasts by 10% - 50% (depending on the metric).

Co-hosted multiple technical public webinars revolving around topics in data science and machine learning.

Araneum Technologies, Zürich — *Machine Learning Engineer*

SEPTEMBER 2019 - DECEMBER 2019

Devised and built machine learning solutions for small and medium-sized Swiss banks.

EDUCATION

ETH/UZH, Zürich — *MSc in Neural Systems and Computation*

SEPTEMBER 2020 - OCTOBER 2022

Developed a novel, bio-inspired continual learning algorithm called *sparse-recurrent DFC* as part of my master thesis, which received the maximum grade. **Showcased poster** about my work at the *AI+X Summit 2022* and **presented it at an *IROS 2022* workshop**.

Co-authored an original research article as first author based on my master thesis, which has been submitted for review at the *Biological Cybernetics* journal.

University of Pennsylvania, Philadelphia — *Computer Science Program*

AUGUST 2018 - DECEMBER 2018

Received honorable mention for Facebook-sponsored award in a project-based coding competition as part of the NETS 212 course (among top 4 of 54 teams).

ETH, Zürich — *BSc in Computer Science*

SEPTEMBER 2016 - APRIL 2020

Completed degree with a GPA of 5.36 (out of 6), **received a scholarship** for a selective exchange program to the University of Pennsylvania, **worked as a student assistant** teaching calculus.

SKILLS

General proficiency in programming using Python, Java, C++.

Extensive experience in developing ML solutions in Python and deep learning systems using PyTorch.

Experience in writing scientific articles.

Communication of technical topics to specialized and general audiences.

LANGUAGES

English	Fluent (Grade A in CPE)
German	Fluent
Italian	Conversational

GITHUB

github.com/pennfranc

CONTACT

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