

Frédéric Montet

September 10th 1989 Aarmühlestrasse 29 fred.montet@gmail.com
Swiss CH-3800 Interlaken +41 76 490 38 00

Experience

2019–today

School of Engineering and Architecture of Fribourg

Scientific Collaborator

- *Development of statistical services to improve building efficiency*
- *Student guidance during their semester, Bachelor or Master projects*

2015–today

Freelance

Paragliding Tandem Pilot

- *Weather management in alpine area*
- *Multi-cultural customer contact*
- *Trust building*

2021–2022

DataCross

Founder

DataCross is an NGO that brings data science skills to groups who need it. The NGO partners with socially conscious organisations who have data to provide low- and no-cost data analytics.

2018–2019

Meteotest AG

Software Engineer

- *Full stack software development with Python backend and React Redux frontend*
- *Treatment of weather related data*
- *Lead in Docker for continuous integration in the development process*

Languages

French *mother tongue*
English *advanced, C1*
German *advanced intermediate, B2*

Education

2020–today

University of Fribourg

PhD in Computer Science

- *Co-supervised by Prof. Dr. Philippe Cudré-Mauroux and Prof. Dr. Jean Hennebert*

01/2024–04/2024

Luleå University of Technology

Visiting Scholar

- *Internship with Prof. Dr. Marcus Liwicki at the EISLAB Machine Learning Group*

2015–2017

University of Applied Sciences and Arts Western Switzerland

Master of Science HES-SO in Engineering

- *Major in Information and Communication Technologies*

2011–2014

School of Business and Engineering Vaud

Bachelor of Science HES-SO in Media Engineering

- *Major in Print and Interactive Media Management*

2006–2010

Bobst Group

Apprenticeship in mechatronics

Centre Professionnel du Nord Vaudois

Technical Federal Vocational Baccalaureate

Interests

Computer Science Design Nature
Photography Music Guitar
Outdoor Movement Sport

Publications

- Montet, Frédéric et al. (2025). “Benchmarking Foundation Models for Times-Series Forecasting: Zero-Shot, Few-Shot, and Full-Shot Evaluations”. In.
- Pasquier, Benjamin et al. (2025). “Benchmarking zero-shot foundation time series forecasting models for industrial applications”. In: *AI days HES-SO’25* 2025.
- Alt, Thibaud et al. (2024). “Managing and optimizing a set of PV installations at the low-voltage grid level: a data-driven concept through machine learning techniques”. In: *Proceedings of the 7th European Grid Service Market Symposium, 1-2 July 2024, Lucerne, Switzerland*. Vol. 2024, G0703.
- Ekström, Löwenmark et al. (2024). “Integration of Large Language Models into Control Systems for Shared Appliances”. In: *AMBIENT 2024: The Fourteenth International Conference on Ambient Computing, Applications, Services and Technologies*.
- Montet, Frédéric, Karl Löwenmark, et al. (2024). “Integration of large language models intro control systems for shared appliances”. In: *Proceedings of AMBIENT 2024, The Fourteenth International Conference on Ambient Computing, Applications, Services and Technologies, 29 September-3 October 2024, Venice, Italy*. Vol. 2024.
- Montet, Frédéric, Benjamin Pasquier, Beat Wolf, and Jean Hennebert (2024). “Enabling diffusion model for conditioned time series generation”. In: *Engineering proceedings* 68.1, p. 25.
- Montet, Frédéric, Alessandro Pongelli, Stefanie Schwab, Mylène Devaux, et al. (2023). “Energy performance certificate estimation at large scale based on open data”. In: *Journal of Physics: Conference Series*. Vol. 2600. 3. IOP Publishing, p. 032009.
- Rey, Joan Frédéric et al. (2023). “Autodigit-RAD: Towards an automation of the radon’s concentration dataflow in a new and innovative building”. In: *Journal of Physics: Conference Series*. Vol. 2600. 10. IOP Publishing, p. 102008.
- Linder, Lucy et al. (2021). “Big Building Data 2.0-a Big Data Platform for Smart Buildings”. In: *Journal of Physics: Conference Series*. Vol. 2042. 1. IOP Publishing, p. 012016.
- Montet, Frédéric, Alessandro Pongelli, Stefanie Schwab, Jean Hennebert, et al. (2021). “Energy performance estimation for large building portfolios with machine learning-based techniques”. In: *Proceedings of Central Europe towards Sustainable Building 2022, International Scientific Conference, 4-6 July 2022, Prague, Czech Republic; Acta Polytechnica*. Vol. 2021. 4-6 July 2022.
- Montet, Frédéric, Lorenz Rychener, et al. (2021). “Prediction of domestic hot water temperature in a district heating network”. In: *Journal of Physics: Conference Series*. Vol. 2042. 1. IOP Publishing, p. 012026.
- Rychener, Lorenz et al. (2020). “Architecture proposal for machine learning based industrial process monitoring”. In: *Procedia computer science* 170, pp. 648–655.