



Cyril Blum

Teacher, Photographer
MBA, MSc EPFL

Coordinates

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Personality

Sociable: As a teacher, I consider my main task being a supportive guide for people.

Humorous: Tackling difficulty with a pinch of humor makes things easier.

Curious: I love exploring the world via photography, food and traveling.

Professional Experience

	Lehrperson mbA Informatik (50-70%) Kantonsschule Dübendorf (Filiale Kantonsschule Stadelhofen)	Since Aug 2025
	Lehrbeauftragter Informatik (40-60%) Kantonsschule im Lee, Winterthur	Since Aug 2023
	wendl.ch Photography and Blogging Cycling from Morocco to Switzerland, ~3000km	2022-2023
	Senior Risk & Data Analyst, PartnerRe - Member of Senior Risk Management Team - Stress Tests, Investment Risk, Compliance, Counterparty - Process Automation (R, Python)	2019-2022
	Consultant, PartnerRe (within MBA), Paris	2019
	Internship, IGN, Paris Fusion of satellite images for detection of urban areas	2017

Languages

Swiss German	Native
German	Native
French	Native (C2)
English	Native (C2 CPE)
Italian	Advanced
Spanish	Advanced
Dutch	Beginner
Arabic	Beginner

★ Awards

EPFL: IGSO Prize for Innovative Master Thesis

Swiss Study Foundation:
Excellence scholarships

- Sophie und Karl Binding Foundation
- Bärbel und Paul Geissbühler Foundation

Gymnasium Kirchenfeld:
Distinction for social commitment

Education

	PHBern Lehndiplom Geografie und Informatik Sekundarstufe II, Zusatzqualifikation für Berufsmaturitätsschulen	2023-2025
	MBA, Collège des Ingénieurs, Paris Highly selective MBA, based in Paris, Munich and Torino	2019-2020
	Actuaire Associé, Institut des Actuaire, Paris Actuarial Thesis: "Sensitivity Analysis and Empirical Validation of a Black-Box Asset Model"	2019-2020
	MSc, EPFL, Lausanne Major in Environmental Science and Engineering Minor in Computer Science	2015-2018
	Master Thesis at University of Wageningen (NL) about Uncertainty in Convolutional Neural Networks	
	BSc, University of Fribourg Major in Geography Minors in Computer Science, Environmental Science	2012-2015
	Matura, Gymnasium Kirchenfeld, Bern	2009-2012

Programming

Python

- Public library "Density Forest" for machine learning, [PyPi](#)
- PartnerRe library for Investment Risk
- Various Dash dashboards deployed on personal servers via CI / CD pipelines ([example](#))

R: Leading 4 interconnected PartnerRe packages, R + Shiny app, team collaboration in Git, CI/CD pipelines

Other (active/passive):

DevOps: [Git](#), [GitLab](#), [Docker](#), [CI/CD](#), [Amazon Web Services](#), [Google Compute Engine](#), [Google Cloud](#)
GIS: [QGis](#), [ArcGis](#), [GDAL](#), [Grass](#), [Erdas](#), [Surfer](#), [PostGIS](#), [SAGA GIS](#)
Web: [HTML](#), [PHP](#), [JavaScript](#), [CSS](#), [WP](#), [Drupal](#), [jQuery](#), [Joomla](#), [NodeJS](#)
Programming: [Python](#), [R](#), [C](#), [C++](#), [Java](#)
Databases: [MySQL](#), [SQLite](#), [PostgreSQL](#), [MS Access](#), [MongoDB](#)
Other: [MS Office](#), [LaTeX](#), [Bash/Shell](#), [InDesign](#), [Photoshop](#), [Illustrator](#), [UiPath](#)

Interests



Photography



Bicycle Touring



Fitness



Guitar, Choir



Cooking



Website Coding

Extracurricular activities



Swiss Study Foundation

- 2019-2025: Organization of numerous alumni networking and education events
- 2019: Winter Academy in Tanzania on “Planning for Health Development”
- 2018: Summer Academy at John’s College, Cambridge, on Digitalization
- 2018: National Model United Nations (NMUN) in NYC
- 2016: European Campus of Excellence on Energy Systems in Transition
- Participation in 30+ seminars, debates and other events



Other Associations and Foundations

- 2013-2015: Foundation member and co-president of [NEUF](#), association for sustainable development at the University of Fribourg
- Organization of “Bike2University” campus-wide cycling competition
- 2012-2018: Board member, chairman and translation manager of the [Warmshowers](#) foundation, >100'000 members worldwide



Selected academic projects

- Master Thesis: Novelty Detection in Convolutional Neural Networks using Density Forests (6/6)
- Imagery of Territory: automatic damage detection after hurricane Matthew using satellite imagery (6/6)
- Design de SIG: Development of a WebGIS management platform for the Kuzikus wildlife reserve, Namibia (6/6)
- Applied Data Analysis: The Face of Geopolitics (5.5/6)
- Machine Learning: road detection on satellite images using convolutional neural networks (5.75/6)

Publications

- C. Wendl, D. Tuia, and D. M. Gonzalez (2019). “*Novelty detection in very high resolution urban scenes with Density Forests*”. In: JURSE (2019). [Link](#) (visited on 2022/02/25).
- A. Le-Bris, N. Chehata, W. Ouerghemmi, C. Wendl, C. Mallet, T. Postadjian, and A. Puissant (2019). “*Decision Fusion of Remote Sensing Data for Land Cover Classification*”. In: M. Y. Yang, B. Rosenhahn, and V. Murin. Multimodal Scene Understanding. 1st ed. Elsevier, 2019. [Link](#) (visited on 2022/02/25)
- C. Wendl, A. L. Bris, N. Chehata and A. Puissant (2018). “*Decision Fusion of SPOT6 and multitemporal Sentinel-2 images for Urban Area Detection*”. In: IGARSS 2018. [Link](#) (visited on 2022/02/25).
- C. Wendl, A. L. Bris, N. Chehata and A. Puissant (2018). “*Fusion tardive d’images SPOT 6/7 et de données multitemporelles Sentinel-2 pour la détection de la tache urbaine*” (French). In: Revue Française de Photogrammétrie et de Télédétection. 217-218 (2018), pp. 87–97. [Link](#) (visited on 2022/02/25).