



Cyril Blum

Teacher, Photographer
MBA, MSc EPFL

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

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|--|---|----------------|
| | 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 <ul style="list-style-type: none"> 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 |

Education

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| | 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 Actuaraires, 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 |

★ 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

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](#)

Programming: [Python](#), [JavaScript](#), [CSS](#), [WP](#), [R](#), [C](#), [C++](#), [Java](#), [Drupal](#), [jQuery](#), [Joomla](#), [NodeJS](#)

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).