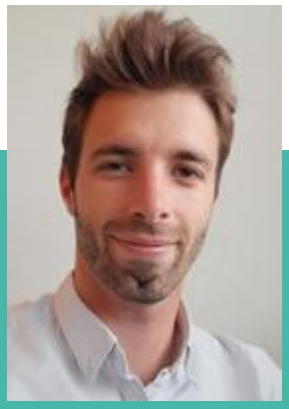

Robin Zbinden

Student in Data Science

Application for a PhD at EPFL

EPFL Master Student

Born on **6 july 1997**

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Qualifications

2019-2022 • **Master of Science** in **Data Science** • École polytechnique fédérale de Lausanne (EPFL) (CH) • Current GPA of **5.43/6**

2016-2019 • **Bachelor of Science** in Communication Systems • École polytechnique fédérale de Lausanne (EPFL) (CH)

2013-2016 • **Maturité gymnasiale** (Secondary School) • Gymnase de Marcelin in Morges (CH) • Maths and Physics

Professional Experience

- August 2021 - February 2022: **Internship** at SONY (Stuttgart) as a **Deep Learning Researcher.** Work on Neural Architecture Search (NAS), towards improving the state-of-the-art of Neural Network latency prediction. Manuscript in preparation.
- June-July 2020: **Internship** at INDY Lab (EPFL). I worked as a **Full Stack Developer** to improve the Climpact.ch webapp and its underlying model, using different frameworks such as Flask, Peewee, D3.js, SQLite, Numpy and Pandas.
- **Student Assistant** for the courses **Machine learning** (2020 CS-433), **Stochastic models** (2019, 2020 COM-300), Information, Calcul, Communication (2019, 2020, 2021 CS-119(h)(k)), Circuit and system (2018 EE-111), and Introduction to **machine learning** (2019, 2020, 2021 CS-233(a)(b)).

Core Skills

Relevant projects

- **Climpact.ch**: I designed a Web platform using Bayesian inference Active Learning, and pairwise comparisons to estimate people's perception of their carbon footprint (Semester Bachelor Project + Internship). Publication at **NeurIPS 2019**.
- Major projects in **Data Analysis**, **Machine Learning** and **Software Engineering**: EPFL food consumption analysis, Communication in Swiss Politics, Convergence of Decentralized SGD, Twitter Sentiment Analysis, Deep Learning Framework Design, and Gatsbi.

Programming skills

- **Python, Java, Scala, JavaScript, HTML, R, MATLAB,** and **C** projects
- **Numpy, Matplotlib, Pandas, Spark, Scikit-learn, PyTorch** and **Keras**

Machine Learning and theoretical Computer Science classes

- Machine learning (CS-433): 6, Deep learning (EE-559): 5.75, Artificial neural networks (CS-456): 5.5, Advanced probability and applications (COM-417): 5.5, Markov chains and algorithmic applications (COM-516): 5.75, Advanced algorithms (CS-450): 5,75.

Languages

- **French** (Mother tongue), **English** (C1), **German** (B2) and **Spanish** (B2)

Personal Interests

Association/Volunteering

Vice President Sports and **Sustainability** of the **PolySports association** at EPFL

Hobbies

Football in club since 2005, **Bouldering**, **Tennis** and **Street Workout**
Guitar since 2006 (Conservatoire certificates), **Reading**, **Chess** and **Climate Change**