

Education

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| University of Zurich, Research Intern, Switzerland | Oct 2025/Apr 2026 |
| University of California, Berkeley, Visiting Student Researcher, United States | Feb 2025/Aug 2025 |
| EPFL, MSc in Data Science, Switzerland (GPA 5.82/6, Excellence Fellowship holder) | 2023/2025 |
| Carnegie Mellon University, ECE Exchange Student, United States (GPA 4.0/4.0) | 2022/2023 |
| EPFL, BSc in Communication Systems, Switzerland (GPA 5.66/6, Ranking 1/121) | 2020/2023 |

Research Projects

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| On Multi-Agent Inverse Reinforcement Learning , Prof. G. Ramponi | Oct 2025/Apr 2026 |
| <ul style="list-style-type: none">Working on efficient inverse reinforcement learning for multi-agent systems. | |
| On the Exploitability of Multi-agent imitation learning , Prof. N. Mehr, V. Cevher | Feb 2025/Aug 2025 |
| <i>Under review for ICLR 2026</i> | |
| <ul style="list-style-type: none">Investigating theoretical limits of BC and GAIL based approaches for multi-agent imitation learning.Developing new continuity conditions on Markov Games to provide Nash gap guarantees in MA-IL. | |
| Distributed Optimization from Preference Feedback , Prof. M. Kamgarpour | Feb 2024/Jun 2024 |
| <i>Paper written, experiments being finalized</i> | |
| <ul style="list-style-type: none">Created UCB-based distributed algorithms for pair-wise preference-based optimization.Combined Bayesian optimization and game theory for ambiguous objective optimization. | |
| Knowledge Distillation on State Space Models , Prof. C. Gülcehre | Sep 2023/Jun 2024 |
| <ul style="list-style-type: none">Studied transformer distillation to fast, low-latency and scalable state space model based networks.Anticipating the use of efficient high-throughput language models for data generation in RL training. | |
| Leveraging LLMs for Strategic Planning , Prof. E. Xing et al. | Jun 2023/Jul 2024 |
| <ul style="list-style-type: none">Studied game theory for LLM fine-tuning with applications to strategic games and decision-making.Study and deployment of Meta Cicero project, an agent playing Diplomacy game onlineDeveloped a Mafia (Werewolf) game engine for LLM simulations in a highly strategic environment. | |

Professional Experience

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| Data Scientist (Intern & Part-Time) , Tradition – Lausanne, Switzerland | Jul 2024/Dec 2024 |
| <ul style="list-style-type: none">Led development of production-ready data pipelines and analytics libraries (acquisition to visualization).Developed ML algorithms for time series modeling, FX options pricing and causality analysis.Developed and deployed graph-based algorithms for real-time trading route discovery in gas markets. | |
| Data Analyst Intern , Spinergie – Paris, France | Jun 2023/Aug 2023 |
| <ul style="list-style-type: none">Built prediction algorithms for missing value imputation in offshore wind intelligence platform.Created forecasting models for offshore wind demand and power supply with quantifiable accuracy. | |

Teaching Experience

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| Student Assistant in Machine Learning (CS-433) , EPFL – Lausanne, Switzerland | Sep 2024/Feb 2025 |
| <ul style="list-style-type: none">Led weekly exercise sessions for a graduate-level Machine Learning course with 600+ students.Provided technical guidance on ML implementations and evaluated projects and final exam. | |
| Student Assistant in Real Analysis (MATH-101) , EPFL – Lausanne, Switzerland | Sep 2023/Feb 2024 |
| <ul style="list-style-type: none">Answered student questions during weekly exercise sessions and on an online forum. | |

Relevant Projects

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| Federated learning with heterogeneous clients , CMU – Pittsburgh (CA), United States | Spring 2023 |
| <ul style="list-style-type: none">Course project for 18-460 Optimization. Reproducibility study of the FedHybrid paper.Report available at bergerault.fr/work/18460_Project_Report.pdf (responsible for theory+implementation). | |

Technical Skills

Programming: Python (NumPy, Pandas, scikit-learn, PyTorch), SQL, Spark, Git.

ML & Data Science: Deep Learning, Reinforcement Learning, Multi-agent Systems, Probabilities & Statistics, Mult-arm bandits.

Languages: French (native), English (fluent), German (limited skills), Japanese (basic).