

Jean-Baptiste Conan

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EDUCATION

- ETH Zürich - Mathematics MSc - Algebraic Topology & ML** Sep. 2022 – Apr. 2025
Zürich, Switzerland
- Master's Thesis at UC Berkeley
- EPFL - Mathematics BSc** Sep. 2018 – Feb. 2022
Lausanne, Switzerland

EXPERIENCE

- Visiting Student Researcher** Nov. 2024 - Apr. 2025 (6 months)
University of California, Berkeley *Berkeley, California*
- Researching mechanistic interpretability of deep neural networks for biostatistics use cases (arxiv.org/2505.00555).
- LLM Engineer - Freelance** Mar. 2024 - Jul. 2024
Sefira AI *Zürich, Switzerland*
- Developed data leakage prevention methods using prompt engineering and finetuning, 90%+ test cases accuracy.
- Management Consulting Intern - Data Science** May 2023 - Oct. 2023 (6 months)
Capgemini Invent *Zürich, Switzerland*
- Developed the offering for GenAI projects in clinical trials for Pharma. Researched technology and market trends. Created a PoC in python to interact with LLMs (code here).
- Instep Program - Machine Learning Intern** Jun. 2022 - Jul. 2022 (8 weeks)
Infosys *Bangalore, India*
- Algorithms for graphical database to highlight links in set of entity (documents). Used NLP technique to automatically retrieve topics of interest within each entity. *Python, Spacy and Dgraph*.
- Junior Entreprise EPFL - HR & IT Vice-President** March 2020 - Jun. 2022 (2.5 years)
EPFL *Lausanne, Switzerland*
- Non-profit association, promotes professional integration of students, members are students and volunteers.
 - Co-managed 44 members, oversaw 57 projects including 29 personally managed (CHF 146K personal turnover out of 350K yearly), led a recruitment of 50+ applications with 2 steps interviews, organized member training, handled customer/student relations and legal contract drafting.
- Teaching Assistant** 2019 – 2024
EPFL/ETH *Lausanne/Zürich, Switzerland*
- ETH: 401-2464-00L (spring 24) Fourier Theory & Hilbert Space, teaching 2h/week, homework correction.
 - EPFL: MATH-100(a) Advanced Analysis, MATH-111(f) Linear Algebra, MATH-106(en) Analysis.

PROJECTS

- Start Ups**
- Cofounded VezmirAI (vezmir.ai), a pay-as-you-go solution for using common AI chat (chatgpt, claude, perplexity). Topped at 100+ active users.
- Deep Learning, Machine Learning & Optimization**
EPFL-ETHZ
- Algebraic Topology & ML: Proposed an extension to the Raindrop algorithm to higher-order structure (report).
 - Deep Learning: Learning sound texture with neural networks, and generating audio with modified sound texture (code available here).
 - Deep Learning: Piano notes generation using diffusion models (code available here).
- Web Development**
- Developed JE EPFL's new website (je.epfl.ch) and created a WebApp for automated business prospecting that generates emails to newly registered Swiss companies using NLP techniques.