Diego DORN

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Date of birth: September 30, 1999
`cozyfractal.com` `github.com/ddorn`

EDUCATION

- **Master's in Communication Systems and minor in Mathematics at EPFL** — Lausanne 🇨🇭
  Focus on artificial intelligence, formal verification and complexity theory — *2021 – present*
- **Summer school "Science and Policy – How to bridge the gap?"** — Interlaken 🇨🇭
  Topics: science for policy, science communication, open science, swiss policy landscape — *July 2023*
- **ARENA, Alignment Research Engineer Accelerator** (`arena.education`) — London 🇬🇧
  6-weeks intensive training on interpretability, RL, training at scale + team projects — *May – June 2023*
- **ML for Good Bootcamp** — Paris 🇫🇷
  11-days AI safety camp organised by EffiSciences — *August 2022*
- **Bachelor's in Mathematics at EPFL** — Lausanne 🇨🇭
  Passed with a 5.42/6 average and top 5/100 of my year. — *2018 – 2021*

WORK EXPERIENCE

- **Research assistant in the Machine Learning Group, Cambridge University** — Cambridge 🇬🇧
  Research on goal misgeneralisation with N. Alex and D. Krueger — *July – September 2023*
  - Published "Goal Misgeneralization as Implicit Goal Conditioning" in GCRL Neurips workshop
- **Teacher at ML4Good, a summer school on AI Safety** — Berlin 🇩🇪
  Delivery and improvement of 10 days of technical and conceptual content. 21 participants — *August 2023*
- **Lead developper for SPRIG** (`sprig.ch`) — Lausanne 🇨🇭
  Developing a distributed platform to increase confidence in mathematical proofs — *2022 – 2023*
- **Semester projects in Mathematical Logic and Game Theory** — Lausanne 🇨🇭
  Guided research, supervision of Jacques Duparc — *2021 – 2022*
  - *"Infinite games in the Baire space"*, Bachelor thesis, Spring 2021
  - *"Between decidable logics: ω-automata and infinite games"*, Master's semester project, Spring 2022
- **Teaching assistant at EPFL** — Lausanne 🇨🇭
  TA for 11 courses (8 different) for 1st and 2nd year bachelors: — *2019 - 2021*
  - *Analyse I* (real 1D analysis)
  - *Analyse II* (vectorial analysis)
  - *Analyse III* (complex analysis)
  - *Mathematical logic*
  - *Information, Calcul et Communication*
  - *Programation orientée objet* (C++ OOP)
  - MOOC *Introduction to C++*
  - MOOC *Introduction to OOP in C++*
- **Game development & small projects** (`cozyfractal.com/showcase`)
  Creation of 10+ small games under strong time constraints for jams, a 2-dimensional EsoLang (Asciidots)...

VOLUNTEERING

- **Founder of the Safe AI Lausanne student association** — Lausanne 🇨🇭
  Group for making AI beneficial and reducing related catastrophic risks — *2022 – present*
  - Organisation of a 10-day bootcamp on AI Alignment, talks and a reading group
- **Vice-president, then Advisor of Effective Altruism Lausanne** — Lausanne 🇨🇭
  Association aiming to find the best ways to help others and put them into practice — *2022 – present*
- **Co-founder of Chocopoly, the hot chocolate association of EPFL** — Lausanne 🇨🇭
  Followed by 400+ students, collaborated with 17 associations and served 746L of chocolate. — *2021 – 2023*
- **President of CQFD** — Lausanne 🇨🇭
  The mathematics students association of EPFL — *2020 – 2021*
- **Member of the national organisation committee of the TFJM[2]** — Many places 🇫🇷
  The french tournament of young mathematicians — *2020 – 2021*
  - Coordination of 9 events across France, development of a new online infrastructure and external communication

- **Programming**

  Main hobby for the 10 last years. Many projects can be seen at `cozyfractal.com/showcase`

    - **Python (6000h)**   Some of the modules I enjoyed using in more than 2 projects each include: asyncio, click, einops, fastAPI, flask, jaxtyping, joblib, huggingface, kivy, matplotlib, moderngl, mypy, numba, numpy, pillow, plotly, poetry, pygame, pytest, pytorch, stable_baselines3, streamlit, transformer_lens, typeguard

    - **Rust (300h)**, **Scala (200h)** and **C/C++ (300h)**

    - **JavaScript / CSS / HTML (500h)**   Also using, VueJS, TailwindCSS, typescript

    - **Other languages**   LaTeX (200h), 6502/NES assembly, Haskell, Matlab, Lean

    - **Tools**   Vim, Jetbrains IDEs, VS Code, git, Docker, sbatch, runAI, inkscape, OBS, Google Suite, ArchLinux (i3wm/sway)...

- **Languages:** French (native), English (fluent), Italian & German (basics, willing to learn more)

- **Others:** climbing (since 2006), juggling (on a bike), cooking (vegan), hot chocolate