

# 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 the Goal-Conditioned Reinforcement Learning workshop at Neurips 2023
- **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 developer 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 under Jacques Duparc's supervision* 2021 – 2022
  - “Infinite games in the Baire space”, Bachelor thesis, Spring 2021
  - “Between decidable logics:  $\omega$ -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 (Asciiidots)...*

## 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 19 associations and served 1288L 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<sup>2</sup>** 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](https://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