

# Derck Prinzhorn

## Curriculum Vitae



### Profile

MSc AI student with the ambition to innovate society. Recently finished my BSc thesis on conformal prediction for time series. Now I'm pursuing a MSc and possibly later a PhD in AI, for which I'm looking to gain research experience. Next to my studies I have several side jobs, working as a Machine Learning Architect, ML Engineer and Project Manager.

### Education

2023 – 2026 **Master of Science Artificial Intelligence**, *University of Amsterdam*.

2020 – 2023 **Bachelor of Science Artificial Intelligence**, *University of Amsterdam*, Cum Laude, GPA: 8.2.

**Bachelor thesis:** Benchmarking conformal prediction methods for time series regression.

2014 – 2020 **VWO Gymnasium, N&G en N&T and economics**, *Het Amsterdams Lyceum*.

### Relevant work experience

2023 – present **Machine Learning Architect**, *Politie Nederland*, Amsterdam.

Working on putting Responsible AI into practice using the MLOps Lifecycle. This includes components, such as technical tools, project management, model pipelines and governance.

2022 – present **Machine Learning Engineer**, *Dutch Nao Team*, Amsterdam.

Worked on several projects, such as *Pose classification using MoveNet and RNN*, *Robot and ball detection using YOLOv8*, *Whistle detection using MFCC and NN*, *Reinforcement learning for behaviours*. Additionally I have the role of project manager and scrum master.

2021 – 2023 **Software Engineer | Team Lead**, *LeerLevels*, Amsterdam.

Worked on several projects, such as *an automatic grading algorithm*, *a custom search engine*, *a physics topic predictor (based on text in an image)*, *a recommender system for physics topics* and on an app development project as company supervisor.

### Teaching

Spring 2023 **Information Visualization**.

Teaching assistant for Bachelor's course at UvA

Spring 2023 **Cognitive Modelling (Reinforcement Learning)**.

Teaching assistant for Bachelor's course at UvA

Winter 2022 **Datastructures and Algorithms**.

Teaching assistant for Bachelor's course at UvA

- Winter 2022 **Machine Learning and Decision making.**  
Teaching assistant for Bachelor's course at UvA
- Fall 2022 **Introduction to Machine Learning.**  
Teaching assistant for Bachelor's course at UvA
- Fall 2022 **Bayesian Statistics for Machine Learning.**  
Teaching assistant for Bachelor's course at UvA

## Projects

- June 2022 **Robotics Hackathon ERF2022, 2nd place, *European Robotics Forum*, Rotterdam.**  
During the European Robotics Forum I participated in the Robotics Hackathon. My role was to be Scrum master & python developer. In two weeks time we created robot software for the Lely Juno robot, without any prior robotics experience. We became second, with our competition being robotics master students.
- January 2022 **Machine Learning Project, *KR&A*.**  
One month Machine Learning project for KR&A. The goal was to find historic drivers of real estate valuation growth by using ML techniques.

## Volunteering and organising

- Vice Chair **Foundation Dutch Nao Team, *July 2023 – present*, Amsterdam.**  
Responsibilities include refining board processes, recruitment and sponsorships.
- Member **Programme Committee AI UvA, *September 2021 – April 2023*, Amsterdam.**  
Contributed to discussions concerning the AI programme, carried out course evaluations, issued opinions and assisted with unresolved issues between students and teachers.
- Board **Stichting Hoormij, *June 2021 – May 2023*, Houten.**  
Advisor to the board of Hoormij.NVVS. Primarily focused on tinnitus and innovation within the organization. Discussing current events and planning strategies in monthly board meetings and biannual strategic sessions.
- Secretary **Tinnitus Jong Network, Stichting Hoormij, *January 2021 – April 2022*, Houten.**  
Contributed to the establishment of committee for young people with tinnitus.
- Mentor **Stichting Studiezalen, *February 2020 – October 2021*, Amsterdam.**  
Mentor and lifecoach for high school student. This involved coaching and homework tutoring.
- Mentor **School's cool, *October 2020 – August 2021*, Amsterdam.**  
Personal mentor for primary school student. Focused on transition to high school, language and arithmetic backlogs and home situation.

## Technology

### Languages

- Advanced Python
- Basic Rust, C, HTML, CSS, JavaScript

### Tools

- Scientific Numpy, Astropy, Pandas, Matplotlib
- ML Scikit, PyTorch, TensorFlow, OpenCV, Jax
- NoSQL JSON, Firebase (Cloud firestore)
- API Flask, Postman
- Development Jupyter, GitHub, Git, Linux shell, Docker

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## Languages

Dutch	<b>Native</b>
English	<b>Professional</b>