

Derck Prinzhorn

derckprinzhorn@gmail.com | [linkedin.com/derckprinzhorn](https://www.linkedin.com/derckprinzhorn)

Profile

MSc Artificial Intelligence student at the University of Amsterdam with a strong technical background and over two years of work experience in AI architecture, machine learning engineering, and AI security. Founder of Wisr, an education technology start-up, and Prinzhorn Solutions, where I work as a freelance AI consultant supporting organizations with research, engineering, and secure AI system design. Involved in both research and industry projects, with outcomes including academic publications. Currently preparing for my MSc thesis.

Education

University of Amsterdam

2023 - 2026

Master of Science in Artificial Intelligence (Grade: 7.7/10, US: A)

Amsterdam

- **Relevant Coursework:** Machine Learning, Deep Learning, Reinforcement Learning, Computer Vision, Natural Language Processing, Information Retrieval, Interpretability & Explainability.

University of Amsterdam

2020 - 2023

Bachelor of Science in Artificial Intelligence (Grade: 8.2/10, US: A)

Amsterdam

- **Relevant Coursework:** Programming, Linear Algebra, Calculus, Bayesian Statistics, Machine Learning, Reinforcement Learning, Computer Vision, Natural Language Processing, Information Retrieval.

Het Amsterdams Lyceum

2014 - 2020

VWO Gymnasium

Amsterdam

Industry experience

Founder

Apr 2025 – present

Prinzhorn Solutions

Amsterdam

- Supporting organizations in building scalable, effective, and secure AI systems.
- Providing services in AI solution architecture, ML engineering, research, and AI strategy.

Co-Founder

Sep 2024 – present

Wisr

Amsterdam

- Building Wisr, an AI-driven platform that helps teachers save time and improve efficiency through automated grading and feedback tools.

AI Architect

Apr 2023 – Apr 2025

Politie Nederland

Utrecht

- Defined and developed reference architectures for AI, MLOps, and AI security, aligned with industry best practices.
- Applied TOGAF and SAFe frameworks to guide architecture design and implementation.

Teaching Assistant

Sep 2022 – Sep 2023

University of Amsterdam

Amsterdam

- Assisted teaching in multiple BSc AI courses, including Machine Learning, Reinforcement Learning, Information Visualization, Bayesian Statistics, and Data Structures & Algorithms.

Software Engineer

Oct 2021 – Jan 2023

LeerLevels

Amsterdam

- Developed grading algorithms, search engines, and recommendation systems.

Research experience

Research Intern <i>The Netherlands Cancer Institute</i> <ul style="list-style-type: none">Explored the use of 3D diffusion models applied to CT scan data to enhance radiotherapy treatment planning, supervised by Stefanos Achlatis.	Oct 2024 – Feb 2025 Amsterdam
Research Intern <i>University of Amsterdam</i> <ul style="list-style-type: none">Worked on a benchmark that evaluates video generation models on physical reasoning. Paper is under review at ICLR.	Oct 2024 – Feb 2025 Amsterdam
Research Intern <i>Supervised Program for Alignment Research (SPAR)</i> <ul style="list-style-type: none">Studied AI control and safety with Aryan Bhatt (Redwood Research), focusing on suspicious output detection, backdoor defense via red-/blue-teaming, and efficient prompting.	Jul 2024 – Oct 2024 Remote
Research Intern <i>Deltares</i> <ul style="list-style-type: none">Researched and implemented conformal prediction for discharge forecasting, supervised by Jing Deng and Hans Korving, and presented results to meteorologists.	Mar 2024 – Jun 2024 Utrecht
Research Intern <i>University of Amsterdam</i> <ul style="list-style-type: none">Researched uncertainty quantification under Putri van der Linden and Alexander Timans, introducing a new perspective on conformal prediction for time series.Published in PMLR and presented at the COPA conference.	Jan 2024 – May 2024 Amsterdam

Academic work

HIVE: A Hyperbolic Interactive Visualization Explorer for Representation Learning <i>ICCV Workshop</i> <ul style="list-style-type: none">Accepted at the Beyond Euclidean Workshop.	July 2025
Morpheus: Benchmarking Physical Reasoning of Video Generative Models <i>ICLR 2026</i> <ul style="list-style-type: none">Under review	Sep 2025
Conformal time series decomposition with component-wise exchangeability <i>COPA & PMLR</i> <ul style="list-style-type: none">Accepted to the 13th Symposium on Conformal and Probabilistic Prediction with Applications (COPA 2024) and published in the Proceedings of Machine Learning Research (PMLR 2024).	June 2024
Reproducibility study of FairAC <i>TMLR & NeurIPS Poster</i> <ul style="list-style-type: none">Published in the Transactions on Machine Learning Research (TMLR 2024) and accepted to the Machine Learning Reproduction Challenge (MLRC2023).Presenting as a poster at the Neural Information Processing Systems (NeurIPS) 2024 conference.	June 2024
Bachelor Thesis <i>Benchmarking conformal prediction methods for time series regression</i>	June 2023

Honors and awards

AmsterdamAI Thesis Award Winner <ul style="list-style-type: none">Awarded for outstanding bachelor thesis on conformal prediction for time series.

Volunteering and organizing

Stichting Protocol Hoorhulpmiddelen <i>Member of the Quality Council</i>	May 2025 – present Houten
<ul style="list-style-type: none">• Advise the board on requirements for the national Hearing Aid Protocol, ensuring feasibility and alignment with stakeholder needs.• Represent perspectives of diverse stakeholder groups to strengthen quality standards in hearing care.	
Stichting Hoormij <i>Board advisor</i>	Mar 2025 – present Houten
<ul style="list-style-type: none">• Focusing on implementing innovations in way of working, brand, offerings and use of technology.	
Forward Incubator <i>Startup Consultant</i>	Dec 2024 – May 2025 Amsterdam
<ul style="list-style-type: none">• Forward-Inc is an Amsterdam-based, internationally operating organization devoted to supporting newcomers in pursuing their entrepreneurial ambitions.• As a consultant, I support the participating entrepreneur during the incubator program.	
AI Safety Amsterdam (AISA) <i>Member</i>	Sep 2023 – May 2025 Amsterdam
Foundation Dutch Nao Team <i>Vice chair</i>	Jul 2023 – Mar 2024 Amsterdam
<ul style="list-style-type: none">• Refined board processes, managed recruitment, and developed partnerships	
Foundation Dutch Nao Team <i>Machine Learning Engineer</i>	Sep 2022 – Jan 2024 Amsterdam
<ul style="list-style-type: none">• Developed AI models for pose classification, object detection, sound detection and reinforcement learning, supervised by Arnoud Visser.• Managed team activities, project backlogs and led scrum teams, resulting in 5x more members and a novel robot framework built from scratch in Rust.	
Programme Committee AI UvA <i>Member</i>	Sep 2021 – Apr 2023 Amsterdam
<ul style="list-style-type: none">• Contributed to AI program discussions, course evaluations, and resolving student-teacher issues	
Stichting Hoormij <i>Board Advisor</i>	Jun 2021 – May 2023 Houten
<ul style="list-style-type: none">• Focused on tinnitus and innovation strategies within the organization.	
Tinnitus Jong Netwerk, Stichting Hoormij <i>Secretary</i>	Jan 2021 – Apr 2022 Houten
<ul style="list-style-type: none">• Established a committee for young people with tinnitus.	
Stichting Studiezalen <i>Mentor</i>	Feb 2020 – Oct 2021 Amsterdam
<ul style="list-style-type: none">• Mentored high school students in coaching and homework tutoring.	
School's cool <i>Mentor</i>	Oct 2020 – Aug 2021 Amsterdam
<ul style="list-style-type: none">• Mentored primary school students during their transition to high school, while managing language and arithmetic backlogs and home situation.	

Skills

Languages: Dutch (Native), English (Professional)

Programming Languages: Python

Data Science and Machine Learning: Scientific Libraries - Numpy, Pandas, Scipy, Matplotlib, Astropy; ML Frameworks - Scikit-learn, PyTorch, TensorFlow, OpenCV, Jax, Statsforecast

Databases: SQL - PostgreSQL, MySQL, SQLite; NoSQL - JSON, Firebase (Cloud Firestore); Graph - Neo4j

Development and API Tools: API Development - Flask, Fastapi, Postman; Development Tools - Jupyter, GitHub, Git, Bash shell, Docker, Kubernetes

MLOps: Experiment Tracking - MLflow, Weights & Biases, Neptune; Orchestration - Metaflow, Kubeflow, Airflow