



LEON ESHUIJS

PhD Student

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in leoneshuijs

EDUCATION

PhD Student

Vrije Universiteit Amsterdam

📅 Oct 2023 - present 📍 Amsterdam, Netherlands

- Research on applying Reinforcement Learning to specialize NLP models
- Recently incorporating Mechanistic Interpretability
- In collaboration with the Universiteit Utrecht

Master Physics - M1

Sorbonne Université

📅 Sep 2022 - Jan 2023 📍 Paris, France

- Following as Erasmus the first semester of the Physics Master.

Master Artificial Intelligence

University of Amsterdam

📅 Sep 2020 - Apr 2023 📍 Amsterdam, Netherlands

- **Electives:** Specialized in advanced Machine Learning, Game Theory, Computer Vision and Reinforcement Learning.
- **Thesis:** "Knowledge Injection through Prompting (KIP): improving image captioning by leveraging knowledge graphs for Transformers". Grade: 8.0/10.0
- **GPA:** 8.3/10.0 - Cum Laude

Bachelor Artificial Intelligence

University of Amsterdam

📅 Sep 2017 - Aug 2020 📍 Amsterdam, Netherlands

- For the honours program I followed courses in Physics and Big History and Psychopharmacology.
- **Minor:** Electronics for Robotics - TU Delft
- **Thesis:** Reinforcement learning for PID tuning of robot arm.
- **GPA:** 8.0/10.0 - graduated Cum Laude and with Honours

EXPERIENCE

AI Engineer

Saivvy

📅 Sep 2020 - May 2021 📍 Amsterdam, Netherlands

- Maintained and expanded the code base for the computer vision projects, including object detection.
- Assisted in the coordination and supervision of Master student projects.
- Constructed the control framework for a harvest robot in simulation.

PROJECTS

AI Safety Camp - Unsearch

📅 Jan 2024 - Apr 2024

- As a participant in the [AI Safety Camp](#), I joined the [UnSearch](#) team to help understand search in Transformer models
- Investigated path following and world models in Transformer models for mazes via Mechanistic Interpretability technique Path Patching.

SpotMicroAI: RL for gait modulation - Sim2Real gap

📅 Jun 2022 - Feb 2023

- Based on the open-source SpotmicroAI platform, I 3D printed and built Jake myself, and then trained different Reinforcement Learning (RL) algorithms for the task of gait modulation.
- See website for more information and videos: [link](#)

EVENTS

Human-aligned AI Summer School

Participant 📅 July 2022 📍 Prague, Czech Republic

EAGxUtrecht - Effective Altruism Conference

Participant 📅 Nov 2023 📍 Utrecht, Netherlands

Belgium Netherlands AI Conference

Demo and Poster Presentation 📅 Nov 2023 📍 TU Delft

TECHNICAL SKILLS

Experienced with

Python

Pytorch

Keras

Slurm

Conda

Familiar with

C

R

SQL

MATLAB

HTML

CSS

Docker

Azure Machine Learning

GCP

PERSONAL INTERESTS

Memory Athlete

Robotics

Effective Altruism

Inclusive AI

AI Safety

LANGUAGES

Dutch

English

French (B1)

