

EDUCATION

- **University of Amsterdam** Amsterdam, NL
MSc Information Systems; Cum Laude; GPA: 8(/10) Sep 2023 – Jun 2024
- **University College Dublin** Dublin, IE
BSc Economics with Statistics; First Class Honour; GPA: 3.86(/4.2) (ranked 3rd) Aug 2018 – May 2021

EXPERIENCE

- **Amsterdam Natural Language Understanding Lab** Amsterdam, NL
Student Researcher Dec 2023 - Jun 2024
 - **Multilingual LLMs:** Contributing to research on prompting multilingual LLMs via a thorough survey of current prompting methods, a critical review, and presenting the findings to support the wider research of the lab.
- **ZK Hack** Remote
Project Manager Apr 2023 - Aug 2023
 - **Cryptography Research:** Led ZK Hack's outbound initiatives, including running the zkMesh newsletter, website design and development, and running the Moon Math Study Club. Worked to enhance the ZK community's understanding of cryptography through content and partnership management, with the goal of driving research forward.
- **Verum Capital** Zurich, CH
Junior Product Manager Sep 2021 - Apr 2023
 - **Strategy Development:** Crafted and executed blockchain strategies for organisations such as a national ministry of a digitisation.
 - **Product:** Product lead for an intellectual property marketplace, involving legal, user and technology research, design and product roadmap by working with the CTO of a series B startup.
 - **UX/UI:** Spearheaded the design of user interfaces for various projects. Carried out user research and developed UX strategy by adhering to User-Centered Design.
- **Gemmo AI** Dublin, IE
Intern Summer 2021
 - **Data and Product Design:** Developed data analysis pipelines with ML engineers for a sports analysis platform, conducting market analysis to inform product strategy, and developing marketing flows with Zapier. Carried out complete redesign of AI product's UI/UX according to User-Centered Design.

PROJECTS

- **Beyond "Think Step-by-Step": Enhancing Abstract Analogy Reasoning in LLMs with Structured CoT:** We developed 'Structured CoT', a novel zero-shot CoT prompting method, to boost reasoning in medium-sized LLMs. Our study shows marked improvements in abstract analogy tasks with models like LLaMA-3 8B, Starling 7B, and Mistral 7B, enhancing strategies for AI reasoning development. Role: Contributed to experiment design, implementation, data analysis, and co-wrote the paper. [Github](#), [Paper](#).
- **Neural Networks for NLP:** Implemented Tree-LSTM to obtain sentence representations for sentiment classification. [Github](#). Also implemented various encoder models from scratch. Training these models utilising the Stanford Natural Language Inference (SNLI) corpus. Experiment setup, dataset curation, model training, offline evaluation and error analysis. [Github](#).
- **Hexamon (In development):** Allowing French learners to practice conversation, track progress, and analyze current ability. Developed skills using Mistral7B and Django web app framework. [UI Prototype](#), [Github](#).

TECHNICAL SKILLS

- **Languages:** Python, SQL, JavaScript, French (B2).
- **Technologies:** Zapier, PyTorch, PostgreSQL, Figma, Jira.

PROFESSIONAL CERTIFICATES

- **DeepLearning.AI:** Deep Learning Specialisation, Generative AI with LLMs, Multi AI Agent Systems, Preprocessing Unstructured Data for LLM Applications, Red Teaming LLM Applications, Finetuning Large Language Models