

DAVID VOS

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I am a PhD student at the IRLab Amsterdam, working on generative methods for news content. My PhD project is a part of the Responsible Media ICAI Lab, partnering with DPG Media. My research focuses on the domains of information retrieval, natural language processing and machine learning. Feel free to reach out to me with (BSc or MSc) thesis supervision requests or with ideas for a potential research collaboration.

PUBLICATIONS

[1] David Vos, Till Döhmen, and Sebastian Schelter. **“Towards Parameter-Efficient Automation of Data Wrangling Tasks with Prefix-Tuning.”** NeurIPS 2022 First Table Representation Workshop.

- Best paper runner-up award.

PROFESSIONAL EXPERIENCE

IRLab - University of Amsterdam

September 2023 - now

PhD Student

- Researching (generative) AI within the news industry.

Vaccinatieregister

December 2022 - April 2022

Software Engineer

- Realized integrations with suppliers and implemented medical standards at the lead provider of software for travel vaccinations.
- Relevant experience: Full stack web and app development in a small team.

INDE Lab University of Amsterdam

June 2022 - December 2022

Visiting Researcher

- Published a paper at the TRL workshop at NeurIPS 2022 as a result of my thesis.
- Relevant experience: Worked together with PhD students and (assistant-)professors on a paper. Took a research idea all the way from concept to publication at a major conference workshop.

DPG Media

February 2019 - June 2019 & November 2021 - June 2022

Machine Learning Engineer Thesis Intern

- Worked as a thesis intern as part of the Recommendation Search team in the largest Dutch news publisher.
- Relevant experience: Learned from Machine Learning Engineers working on large scale recommendation solutions.

Finly

August 2020 - September 2021

Software Engineer

- Developed features for software used by large insurance and telecom companies for their customer support and management.
- Relevant experience: Full stack web development and client support in a scale-up software company.

A-INSIGHTS

April 2019 - June 2020

Data Engineer

- Worked on data pipelines and web crawlers for a scale-up company providing market insights.

- Relevant experience: Data engineering and data science in the context of a scale-up company where software is used to support business decisions.

University of Amsterdam

August 2017 - November 2021

Teaching Assistant

- Assisted professors in teaching bachelor courses ranging from mathematics to programming and logic. I explained lecture contents in tutorial sessions and graded the work of students.

JUNO Amsterdam

February 2017 - July 2019

Co-Founder Developer

- With two fellow students I founded a company that developed digital products for clients. We implemented solutions ranging from basic websites to complex algorithms.
- Relevant experience: Building products from concept to execution in an entrepreneurial setting.

Syncable Music

April 2017 - April 2019

Software Engineer

- As part of a startup team, I worked on a music licensing platform for online video.
- Relevant experience: Learned from people experienced in building companies and got a lot of engineering responsibilities.

EDUCATION

University of Amsterdam

September 2019 - September 2022

MSc. in Artificial Intelligence

- GPA: 8.2/10 (cum laude)
- Relevant coursework: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Reinforcement Learning.
- Thesis: Language control prefixes: Conditional prefix-tuning for efficient multilingual data-to-text generation in low-resource languages. Supervised by dr. ing. S. (Sebastian) Schelter and dr. M. (Marlies) van der Wees.

University of Edinburgh

September 2018 - December 2018

Erasmus Exchange Programme

- Completed courses in databases, robotics and introductory Anthropology.

University of Amsterdam

September 2016 - June 2019

BSc. in Artificial Intelligence

- GPA: 8.3/10 (cum laude)
- Relevant coursework: Linear Algebra, Probability Theory and Calculus, Machine Learning, Programming and Computer Science fundamentals.
- Thesis: Automating a weekly newsletter for news article recommendations at De Volkskrant. Supervised by dr. H. (Harrie) Oosterhuis, dr. A. (Anne) Schuth and L. (Lucas) de Haas.

University of Amsterdam

September 2016 - June 2019

Honours Programme for BSc. Artificial Intelligence

- Research project on Art-Inspired Fashion. Investigated Siamese Networks for image retrieval, and the use of Generative Adversarial Networks for generation of images of fashion models wearing novel clothing designs.
- Research project on Automated ESG Benchmarking. Explored the use of natural language processing techniques to automate sustainability assessment of large multinationals from large text-based datasets.
- Graduation project on the analysis of the reading behaviour of subscribers of a weekly newsletter at De Volkskrant. I used the results of this analysis for my thesis project.

SKILLS

Programming Languages	Python, Javascript, PHP, SQL, Go
Frameworks	PyTorch, Django, Flask, Laravel, ReactJS
Tools	(Py)Spark, Docker, Github Actions, Concourse, Cypress
Languages	English (fluent), Dutch (native), German (intermediate)

Soft skills

Entrepreneurial thinker, research-minded, strong presenter, empathetic, collaborator, fast learner, effective communicator, adaptable personality.

EXTRA QUALIFICATIONS

Certificate of Proficiency in English

2017

- Cambridge English Certificate of Proficiency (C2 level).

The Next Web T500

2018-2022

- Dutch list of the top 500 most talented people under the age of 30.