

Curriculum Vitae - Maartje ter Hoeve







maartjeterhoeve@gmail.com

maartjeth.github.io



Research interests



Multi-modal machine learning, deep learning, natural language processing, information retrieval, summarization, explainability, reasoning

Education

- 01/18 – **current**  University of Amsterdam
PhD Candidate – Main research fields: NLP & IR
Supervisor: Prof. Dr. Maarten de Rijke, Co-Supervisor: Dr. Julia Kiseleva
- 09/15 – 09/17  University of Amsterdam
MSc Artificial Intelligence, Cum Laude, GPA: 8.7/10
Focussed on: ML, NLP, IR, Thesis title: Explaining rankings (graded 9.0/10)
- 2014 - 2015  University of Amsterdam
Premaster Artificial Intelligence, GPA: 9.0/10
- 09/13 – 12/13  University of Edinburgh
Informatics and Linguistics, GPA: 9.2/10
Focussed on: NLP, Speech Processing, Processing formal and natural languages
- 2013 – 2014  University of Amsterdam
Honours Programme
30 ECTS on top of my normal study programme, to deepen and broaden my studies
- 2011 – 2014  University of Amsterdam
BA General Linguistics, Cum Laude, GPA: 8.9/10,
Thesis title: Modelling Late Bilingual Speakers with Neural Networks (graded 8.5/10)

Professional experience and internships

- 05/19 – 08/19  Microsoft Research AI, Redmond
Topic: Question Answering – Full paper published at CHIIR 2020
Mentors: Robert Sim, Ryen White, Team: Knowledge Technologies and Intelligent Experiences
- 01/17 – 09/17  Blendle
Graduation Project. Topics: Algorithmic Explainability, Rankings, Recommender Systems
Supervisors: Prof. Dr. Maarten de Rijke & Dr. Anne Schuth. *Grade: 9.0/10*
- 05/16 – 06/16  ASML
Internship. Topic: Natural Language Understanding
Supervisor: Dr. Ivan Titov. *Grade: 8.5/10*
- 2015 – 2016  University of Amsterdam
Teaching Assistant
Logic Programming and Search, Introduction to A.I., Academic Skills, Natural Language Processing

- 2015 – 2016  University of Amsterdam
Tutor
 Being a mentor for 1st years A.I. students and guiding them through their first year at university
- 03/'14 – 07/'14  University of Amsterdam, Dr. Jan de Jong
Research assistant
 Task: assisting at the VALID project; constructing a database for children's language data
- 2012 – 2013  University of Amsterdam, Prof. Dr. Fred Weerman & Dr. Jan de Jong
Research assistant
 Task: assisting at the FESLI-project; digitalising language data
- 2011 – 2015  StudentsPlus
Tutor in Mathematics, Physics, Chemistry, Biology, Dutch, Latin and Ancient Greek
- 01/'12 – 07/'12  University of Amsterdam, Dr. Titia Benders
Research assistant
 Task: responsible for the phonetic analysis of recorded data

Technical skills

Python, Java, MATLAB, LaTeX
 Pytorch, Tensorflow
 Experienced with programming on GPUs





Publications





- 2020 **Maartje ter Hoeve**, Robert Sim, Elnaz Nouri, Adam Fourney, Maarten de Rijke, Ryen White. Conversations with Documents: An Exploration of Document-Centered Assistance. In *CHIIR*, March 2020.
- 2020 David Stap, Maurits Bleeker, Sarah Ibrahim, **Maartje ter Hoeve**. Conditional Image Generation and Manipulation for User-Specified Content. In *AICCW (CVPR)*. June 2020.
- 2019 Joris Baan, **Maartje ter Hoeve**, Marlies van der Wees, Anne Schuth, Maarten de Rijke. Understanding Multi-Head Attention in Abstractive Summarization. November 2019.
- 2019 Joris Baan, **Maartje ter Hoeve**, Marlies van der Wees, Anne Schuth, Maarten de Rijke. Do Transformer Attention Heads Provide Transparency in Abstractive Summarization? In *FACTS-IR (SIGIR)*, July 2019.
- 2018 **Maartje ter Hoeve**, Anne Schuth, Daan Odijk and Maarten de Rijke. Faithfully Explaining Rankings in a News Recommender System. *arXiv preprint 1805.05447*, May 2018.
- 2017 **Maartje ter Hoeve**, Mathieu Heruer, Daan Odijk, Anne Schuth, Martijn Spitters, Ron Mulder, Nick van der Wildt and Maarten de Rijke. Do News Consumers Want Explanations for Personalized News Rankings?. In *FATREC Workshop on Responsible Recommendation (RecSys)*, August 2017.

Review activities

WSDM (2017), WWW (2017), CIKM (2018), NeurIPS (2018), NAACL (2019), ICML (2019), TOIS, ACL (2020), CIKM (2020), EMNLP (2020)

Activities and scholarships

- 2020 – **current**  Organiser of *Search Engines Amsterdam*, monthly meetup
- 2019 – **current**  Organiser and mentor at Inclusive AI, University of Amsterdam
- 2018  Participant Data Science Summer School, Paris
- 2017  Participant Google NLP Summit, Zürich

09/'15 – 09/'19		Extensus Alumni Network <i>Board member (Project officer)</i> Organising events for the alumni network of Extensus, the study association for honours students
2015 – 2017		Awarded with the ASML Technology Scholarship
2014 – 2015		Extensus Honours Association <i>President</i> Tasks: leading the student association w.r.t. today's tasks and the long-term vision
07/'12 – 07/'12		Lyon Bleu <i>Summer course French</i>

Teaching

2020	Henning Bartsch, MSc Artificial Intelligence, UvA, master thesis, topic: <i>improving user representations for news recommendation</i>
2019	Joris Baan, MSc Artificial Intelligence, UvA, master thesis, topic: <i>transparency in abstractive summarization</i>
2019	David Stap, MSc Artificial Intelligence, UvA, master thesis, topic: <i>conditional image generation and manipulation</i>
2018	Information Retrieval 2, MSc Artificial Intelligence, UvA, course
2018	David Ruhe, MSc Data Science, UvA, master thesis, topic: <i>adversarial examples for capsule networks</i>
2018	Dennis Craandijk, MSc Data Science, UvA, master thesis, topic: <i>automatic unseen event extraction from text</i>
2018	Mink Rohmer, MSc Data Science, UvA, master thesis, topic: <i>classifying the severity of written complaints</i>

Languages

Native: Dutch

Full professional proficiency: English

Elementary proficiency: German, French