Mariya Hendriksen

Curriculum Vitae

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Education

Mar 2019 – present	**University of Amsterdam**, *PhD in Artifical Intelligence*, *Advisor*: Maarten de Rijke · *Mentor*: Andrew Yates
2017 – 2019	**KU Leuven**, *MSc in Artificial Intelligence*, *With Honors* *Thesis*: Dialogue Breakdown Detecton in Chatbots *Advisors*: Marie-Francine Moens, Artuur Leeuwenberg
2014 – 2015	**University of Nantes**, *Exchange Programme* *Topics*: Algorithms and Data Structures, Object-oriented Programming, Information Systems
2012 – 2016	**Novosibirsk State University**, *BSc in Computational Linguistics*, *With Honors* *Thesis*: Automatic Detection of Manipulation Tactics in News Articles *Advisors*: Maria Timofeeva, Anna Leman

Experience

Jul 2023 – Oct 2023	**Bloomberg AI**, *Research Intern* *Hosts*: Shuo Zhang, Ridho Reinanda, Mohamed Yahya, Edgar Meij
Nov 2022 – Mar 2023	**Amazon Science**, *Applied Research Intern* *Hosts*: Svitlana Vakulenko, Gabriella Kazai, Emine Yilmaz
Sep 2018 – Feb 2019	**KU Leuven, Language Intelligence & Information Retrieval Lab**, *Research Intern* *Topic*: Dialogue Breakdown Detecton in Chatbots *Host*: Marie-Francine Moens
Jul 2018 – Sep 2018	**ETH Zurich, Biomedical Informatics Lab**, *Research Intern* *Topic*: Parallel and distributed training of deep mixture of experts for metagenomic DNA classification *Host*: Gunnar Rätsch
Feb 2017 – May 2019	**Lionbridge Technologies, Inc.**, *Computational Linguist* Contributed towards an AI writing assistance system
Jul 2018 – Sep 2018	**Diogen**, *Tutor & Mentor* Teaching probability and discrete mathematics to children of age 10–12 and guiding them throughout the camp sessions

Selected publications and preprints

Full list: Google Scholar

Thong Nguyen*, **Mariya Hendriksen***, Andrew Yates, and Maarten de Rijke. Multimodal Learned Sparse Retrieval with Probabilistic Query Expansion. In ECIR 2024: 46th European Conference on Information Retrieval. Springer, March 2024.

Thong Nguyen, **Mariya Hendriksen**, and Andrew Yates. Multimodal Learned Sparse Retrieval for Image Suggestion. TREC 2023.

Mariya Hendriksen, Jordan Massiah, Svitlana Vakulenko, and Emine Yilmaz. Predicting Image-Seeking Intent for Cross-Device Search. Under submission.

Mariya Hendriksen, Svitlana Vakulenko, Ernst Kuipers, and Maarten de Rijke. Scene-Centric vs. Object-Centric Image-Text Cross-Modal Retrieval: A Reproducibility Study. In ECIR 2023: 45th European Conference on Information Retrieval. Springer, April 2023.

Karel Veldkamp, **Mariya Hendriksen**, Zoltán Szlávik, and Alexander Keijser. Towards Contrastive Learning in Music Video Domain.

Mariya Hendriksen, Viggo Overes, Luka Wong Chung. Unimodal vs. Multimodal Siamese Networks for Outfit Completion. July 2022.

Mariya Hendriksen, Maurits Bleeker, Svitlana Vakulenko, Nanne van Noord, Ernst Kuipers, and Maarten de Rijke. Extending CLIP for Category-to-image Retrieval in E-commerce. In ECIR 2022: 44th European Conference on Information Retrieval. Springer, April 2022.

Mariya Hendriksen. Multimodal Retrieval in E-commerce: from Categories to Images, Text, and Back. In ECIR 2022: 44th European Conference on Information Retrieval. Springer, April 2022.

Goei, Kenneth, **Mariya Hendriksen**, and Maarten de Rijke. Tackling Attribute Fine-grainedness in Cross-modal Fashion Search with Multi-level Features. In Proceedings of the 2021 SIGIR Workshop on eCommerce. July 2021.

Mariya Hendriksen, Ernst Kuiper, Pim Nauts, Sebastian Schelter, and Maarten de Rijke. Analyzing and Predicting Purchase Intent in E-commerce: Anonymous vs. Identified Customers. In Proceedings of the 2020 SIGIR Workshop on eCommerce. July 2020.

Mariya Hendriksen, Fatemeh Sarvi and Maarten de Rijke. High Accuracy Recall Task: AIRLab Entry. In Proceedings of the 2019 SIGIR Workshop on eCommerce. July 2019.

Mariya Hendriksen, Artuur Leeuwenberg, and Marie-Francine Moens. LSTM for Dialogue Breakdown Detection: Exploration of Different Model Types and Word Embeddings. In Proceedings of WOCHAT. April 2019.

Supervision

2023 **Maurice Schaasberg**, *MSc in Artificial Intelligence*, University of Amsterdam
Topic: Multimodal Learned Sparse Retrieval

2022 **Karel Veldkamp**, *MSc in Data Science*, University of Amsterdam,
Topic: Multimodal Representation Learning for Music Video Recommendations

2022 **Viggo Overes**, *BSc in Computer Science*, University of Amsterdam,
Topic: Multimodal Siamese Networks for Outfit Completion

2022 **Luka Wong Chung**, *BSc in Artificial Intelligence*, University of Amsterdam
Topic: Graph Neural Networks for Outfit Completion

2021 **Christina Stroe**, *MSc in Data Science*, University of Amsterdam,
Topic: Large Language Models and Pattern-exploiting Training for Document Analysis

2021 **Efstathios Charitos**, *MSc in Artificial Intelligence*, University of Amsterdam,
Topic: A New Reddit-Sourced Dataset for Emotion-Aware Artwork Recommendation

2021 **Kenneth Goei**, *MSc in Artificial Intelligence*, University of Amsterdam
Topic: Tackling Attribute Granularity for Cross-Modal Fashion Retrieval

2020 **Anne Klaver**, *MSc in Data Science*, University of Amsterdam,
Topic: Addressing the Problem of Class Imbalance for Direct Marketing Response Model

2020 **Derek Heek**, *MSc in Data Science*, University of Amsterdam,
Topic: Predicting Email Opening Intent for Mailing Lists

Teaching

2023 **Information Retrieval 2**, *MSc Artificial Intelligence*, University of Amsterdam
Lecture on Multimodal Machine Learning for Search

2020 – 2021 **Deep Learning**, *MSc Artificial Intelligence*, University of Amsterdam
Teaching Assistant

2021 – 2022 **Deep Learning 1**, *MSc Artificial Intelligence*, University of Amsterdam
Teaching Assistant

Community service

Organizer: TREC AToMiC Track
Organizer: Dutch-Belgian Information Retrieval Workshop (DIR 2021)
Reviewing: WSDM, ECIR, CIKM, SIGIR, NeurIPS
PC member: SIGIR eCommerce workshop
Volunteer: NeurIPS'20, ICML 2020, ICLR 2020, SIGIR 2019

Technical skills

Programming Languages: Python, Java, Matlab, SQL, Prolog, LaTeX
Frameworks & Tools: PyTorch, TensorFlow, Numpy, Scipy, Sklearn, BigQuery

Selected awards

2022 SIGIR conference attendance grant.

2022 Women in Data Science Zurich full travel grant.

2018 ETH Zurich Student Summer Research Fellowship: scholarship and full travel grant.

2017 – 2018 Oxford Russia Fund Scholarship.

2016 – 2017 Full-tuition University Scholarship, Higher School of Economics.

2015 – 2016 Excellence Scholarship, Novosibirsk State University.

2012 – 2016 Full-tuition University Scholarship, Novosibirsk State University.

Additional education

2020	**Max Planck Institute for Intelligent Systems**, *Machine Learning Summer School*
2019	**Ecole Polytechnique**, *Data Science Summer School*

Extracurricular activities

2019 – present **Inclusive AI**, *Mentor*, Amsterdam, the Netherlands
Mentoring MSc in AI students who identify themselves as minority.

2022 **Outlook Digital Economy report**, Amsterdam, the Netherlands
Contributed to a report into the impact of digital technologies on the Dutch economy by the year 2030.

2022 **International Day of Women and Girls in Science**, Amsterdam, the Netherlands
Gave an interview for the "Women & Girls in Science" edition of a newsletter at Ahold Delhaize.

2017 – 2019 **Artificial Intelligence Advisory Committee, KU Leuven**, *Board Member*, Leuven, Belgium
Worked together with the professors and other students on evaluating the MSc programme curriculum

2016 – 2017 **ESN HSE Moscow**, *Buddy*, Moscow, Russia
Helping international students to adapt to living and studying in Russia

2016 – 2017 **Let's bike it**, *Organizer*, Moscow, Russia
Took part in an initiative aimed at encouraging people to use bicycle as a primary mean of transport

Languages

Native: Russian

Full professional proficiency: English

Limited working proficiency: Dutch, French, Ukrainian

Miscellaneous

Interests: Over a decade of yoga practice, extensive international living experience (8 countries), certified ANDI Open Water Sport Diver, Diploma in Choreography from the Gubkinsky School of Arts