

# Mariya Hendriksen

## Curriculum Vitae

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### Education

- Mar 2019 – **University of Amsterdam**, *PhD in Multimodal ML for IR*,  
Dec 2024 *Advisors: Maarten de Rijke, Paul Groth.*
- 2017 – 2019 **KU Leuven**, *MSc in Artificial Intelligence, With Honors*  
*Advisors: Marie-Francine Moens, Artuur Leeuwenberg.*
- 2014 – 2015 **University of Nantes**, *Exchange Programme, Informatics*
- 2012 – 2016 **Novosibirsk State University**, *BSc in Computational Linguistics, With Honors*  
*Advisors: Maria Timofeeva, Anna Leman.*

### Experience

- Sep 2024 – **Microsoft Research**, *Research Intern*  
May 2025 *Hosts: Sarah Parisot, Sam Devlin, Katja Hofmann.*  
Resulted in a publication under submission at NeurIPS 2025.
- Apr 2024 – **Google**, *Student Researcher*  
Sep 2024 *Gemini RL. Hosts: Aleksandr Chuklin, Aliaksei Severyn.*  
*Collaborators: Sertan Girgin, Andreas Steiner.*  
Resulted in a contribution towards an internal RL system.
- Jul 2023 – **Bloomberg AI**, *Research Intern*  
Oct 2023 *Vision-Language models evaluation. Hosts: Shuo Zhang, Mohamed Yahya.*  
Resulted in a publication at SIGIR 2025.
- Nov 2022 – **Amazon Science**, *Applied Research Intern*  
Mar 2023 *Image-seeking intent in cross-device setting. Hosts: Gabriella Kazai, Emine Yilmaz.*  
Resulted in a publication under submission at CIKM 2025.
- Sep 2018 – **KU Leuven, LIIR**, *Research Intern*  
Feb 2019 *Dialogue Breakdown Detecton in Chatbots. Hosts: Artuur Leeuwenberg, Marie-Francine Moens.*  
Resulted in a publication at WOCHAT 2019.
- Jul 2018 – **ETH Zurich, Biomedical Informatics Lab**, *Research Intern*  
Sep 2018 *Parallel and distributed training of deep mixture of experts. Hosts: Vincent Fortuin, Gunnar Rätsch.*  
Selected as one of 16 participants of the Summer Research Fellowship program from among 1,000+ applicants.

## Selected Publications and Preprints

Full list: Google Scholar

**Mariya Hendriksen**, Tabish Rashid, David Bignell, Raluca Georgescu, Abdelhak Lemkhenter, Katja Hoffman, Sam Devlin, and Sarah Parisot. Adapting Vision-Language Models for Evaluating World Models. *Submitted to NeurIPS 2025*.

Tabish Rashid, **Mariya Hendriksen**, David Bignell, Raluca Georgescu, Katja Hoffman, and Sarah Parisot. Controllable World Models: A Study on Finetuning World Models with Text. *To be submitted to ICLR 2026*.

**Mariya Hendriksen**, Shuo Zhang, Ridho Reinanda, Mohamed Yahya, Edgar Meij, and Maarten de Rijke. Benchmark Granularity and Model Robustness for Image-Text Retrieval. In: *SIGIR 2025*.

Tabish Rashid, David Bignell, Raluca Georgescu, **Mariya Hendriksen**, Abdelhak Lemkhenter, Shanzheng Tan, Linda Wen, Katja Hofmann, Sarah Parisot. Towards Real-Time Multimodal World Models for Interactive Experiences. In: *CVPR Demo Track 2025*.

Kenneth Enevoldsen, Isaac Chung, . . . , **Mariya Hendriksen**, . . . , Siva Reddy, and Niklas Muennighoff. MMTEB: Massive Multilingual Text Embedding Benchmark. In: *ICLR 2025*.

Maurits Bleeker\*, **Mariya Hendriksen\***, Andrew Yates, and Maarten de Rijke. Demonstrating and Reducing Shortcuts in Vision-Language Representation Learning. In: *TMLR 2024* (co-first author).

Thong Nguyen\*, **Mariya Hendriksen\***, Andrew Yates, and Maarten de Rijke. Multimodal Learned Sparse Retrieval with Probabilistic Query Expansion. In: *ECIR 2024* (co-first author).

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

**Mariya Hendriksen**, Jordan Massiah, Svitlana Vakulenko, and Emine Yilmaz. Predicting Image-Seeking Intent for Cross-Device Search. *To be submitted to CIKM 2025*.

**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*.

**Mariya Hendriksen**, Viggo Overes, Luka Wong Chung. Unimodal vs. Multimodal Siamese Networks for Outfit Completion. *arXiv preprint arXiv:2207.10355, 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*.

**Mariya Hendriksen**. Multimodal Retrieval in E-commerce: from Categories to Images, Text, and Back. In: *ECIR 2022*.

Goei, Kenneth, **Mariya Hendriksen**, and Maarten de Rijke. Tackling Attribute Fine-grainedness in Cross-modal Fashion Search with Multi-level Features. In: *SIGIR eCommerce 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: *SIGIR eCommerce 2020*.

**Mariya Hendriksen**, Artuur Leeuwenberg, and Marie-Francine Moens. LSTM for Dialogue Breakdown Detection: Exploration of Different Model Types and Word Embeddings. In: *WOCHAT 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*: WiML at ICML 2025, DIR 2021

*Reviewing*: ICLR, NeurIPS, WSDM, ECIR, CIKM, SIGIR

*PC member*: SIGIR eCommerce workshop

*Volunteer*: NeurIPS'20, ICML 2020, ICLR 2020, SIGIR 2019

## Technical Skills

*Programming Languages:* Python, Java, Matlab, SQL, Prolog,  $\text{\LaTeX}$

*Frameworks & Tools:* PyTorch, JAX, 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

- 2024 **ELLIS Unit Amsterdam**, *Winter School on Foundation Models*
- 2020 **Max Planck Institute for Intelligent Systems**, *Machine Learning Summer School*
- 2019 **Ecole Polytechnique**, *Data Science Summer School*

## Extracurricular Activities

- 2025 **Women in Machine Learning**, *General Chair*  
Organizer of the Women in Machine Learning workshop at ICML 2025.
- 2019 – **Inclusive AI**, *Mentor*, Amsterdam, the Netherlands
- present Mentoring MSc in AI students from underrepresented groups.
- 2022 **Outlook Digital Economy report**, Amsterdam, the Netherlands  
Contributed to a government report exploring the impact of digital technologies on the Dutch economy by 2030.
- 2022 **International Day of Women and Girls in Science**, Amsterdam, the Netherlands  
Featured in a newsletter interview promoting women and girls in science careers with Ahold Delhaize.
- 2017 – 2019 **Artificial Intelligence Advisory Committee, KU Leuven**, *Board Member*, Leuven, Belgium  
Served on the committee alongside professors and students, providing feedback on the MSc program curriculum.
- 2016 – 2017 **ESN HSE Moscow**, *Buddy*, Moscow, Russia  
Assisted international students with adapting to life and studies in Russia.
- 2016 – 2017 **Let's bike it**, *Organizer*, Moscow, Russia  
Participated in an initiative promoting cycling as a primary mode of transportation.

## Languages

*Native:* Russian

*Full professional proficiency:* English

*Limited working proficiency:* Dutch, French, Ukrainian

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## Miscellaneous

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