Vivien van Veldhuizen

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Education

The Netherlands Cancer Institute, Radboud University Medical Center *Amsterdam, the Netherlands*
PhD in Deep Learning for Personalized Breast Cancer Care *01-11-2023 - present*
Topics: *computer vision, self-supervised learning, foundation models, computational radiology*

- Supervisors: Jonas Teuwen, Eric Marcus, Ritse Mann, Katja Pinker-Domenig
- Collaboration with Memorial Sloan Kettering Cancer Center, New York, USA

University of Amsterdam *Amsterdam, the Netherlands*
Msc in Artificial Intelligence *01-09-2020 - 31-02-2023*
Topics: *machine learning theory, deep learning, computer vision, NLP, geometric DL, generative modelling*

- Thesis: Geometric Representation Learning using Variational Autoencoders, supervisor: Erik J. Bekkers

University of Amsterdam *Amsterdam, the Netherlands*
BA in Theatre Studies *01-09-2018 - 01-07-2021*

- Thesis: Metaphysics of Space in Virtual Reality, supervisor: Veronika Zangl

University of Amsterdam *Amsterdam, the Netherlands*
Bsc in Artificial Intelligence *01-09-2017 - 01-07-2020*

- Minor in Bio-robotics at TU Twente
- Thesis: actor-critic reinforcement learning for robotics, supervisor: Elia Bruni

Professional Experience

2023 - now	**PhD Candidate**, The Netherlands Cancer Institute, Radboud University Medical Center
2021-2023	**Project Assistant**, VHTO - Dutch National Expert Organization on Women in Science
2022	**SGI Research Fellow**, Massachusetts Institute of Technology
2018-2021	**Teaching Assistant Artificial Intelligence**, University of Amsterdam

Publications

van Veldhuizen, V., Vadgama, S., de Boer, O., Meijer, S., Bekkers, E.J. (2023). Modeling Barrett's Esophagus Progression Using Geometric Variational Autoencoders. In: Cancer Prevention Through Early Detection. CaPTion 2023. Lecture Notes in Computer Science, vol 14295. Springer, Cham.

Honors & Outreach

2024	**Bétapartners**, Girls' Day Ambassador
2023	**Women in AI Netherlands Awards**, Finalist
2021-2023	**VHTO**, Rolemodel IT
2020	**ADS Thesis Awards**, 2nd Place

Teaching Experience

2018-2019	**Introduction to Artificial Intelligence**, Teaching Assistant	*UvA*
2018-2019	**Introduction to Cognitive Psychology**, Teaching Assistant	*UvA*
2019	**Machine Learning**, Teaching Assistant	*UvA*
2019-2020	**Cognitive Modelling**, Teaching Assistant	*UvA*
2019-2020	**Information Visualization**, Teaching Assistant	*UvA*