

# Bram de Wilde

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## Education

### PhD in Deep Learning for Medical Imaging

RADBOUD UNIVERSITY MEDICAL CENTER

- Topic: AI-assisted detection of adhesions on cine-MRI

Nijmegen, The Netherlands

Oct. 2019 - Oct. 2023

### MSc. Applied Physics + Applied Mathematics

UNIVERSITY OF TWENTE

- Materials Science and Scientific Computing + Research Honours track

Enschede, The Netherlands

Sep. 2016 - Jul. 2019

### Internship at IBM Research

CLOUD AND COMPUTING INFRASTRUCTURE DEPARTMENT

- Experiments and simulations of 1/f noise in phase-change memory devices

Zurich, Switzerland

Sep. 2017 - Dec. 2017

### BSc. Applied Physics

UNIVERSITY OF TWENTE

- Minor in secondary school Physics education

Enschede, The Netherlands

Sep. 2013 - Jul. 2016

## Publications

### First author

1. Bram de Wilde, Anindo Saha, et al. “**Medical diffusion on a budget: textual inversion for medical image generation**”. In: *arXiv preprint arXiv:2303.13430, under review for ICCV2023* (2023). DOI: <https://doi.org/10.48550/arxiv.2303.13430>
2. Bram de Wilde, Frank Joosten, et al. “**Inter- and Intra-Observer Variability and the Effect of Experience in Cine-MRI for Adhesion Detection**”. In: *Journal of Imaging* 9.3 (2023), p. 55. DOI: <https://doi.org/10.3390/jimaging9030055>
3. Bram de Wilde and Natália Alves. “**Uncertainty-Guided Self-learning Framework for Semi-supervised Multi-organ Segmentation**”. In: *Fast and Low-Resource Semi-supervised Abdominal Organ Segmentation*. Ed. by Jun Ma and Bo Wang. Cham: Springer Nature Switzerland, 2022, pp. 116–127. ISBN: 978-3-031-23911-3. DOI: [https://doi.org/10.1007/978-3-031-23911-3\\_11](https://doi.org/10.1007/978-3-031-23911-3_11)
4. Bram de Wilde, Richard PG ten Broek, and Henkjan Huisman. “**Cine-MRI detection of abdominal adhesions with spatio-temporal deep learning**”. In: *arXiv preprint arXiv:2106.08094* (2021). DOI: <https://doi.org/10.48550/arxiv.2106.08094>
5. Bram de Wilde, Jesse Bakker, et al. “**Hopping-transport mechanism for reconfigurable logic in disordered dopant networks**”. In: *Physical Review Applied* 17.6 (2022), p. 064025. DOI: <https://doi.org/10.1103/physrevapplied.17.064025>

### Co-author

1. Nikolas Lessmann et al. “**Automated assessment of COVID-19 reporting and data system and chest CT severity scores in patients suspected of having COVID-19 using artificial intelligence**”. In: *Radiology* 298.1 (2021), E18–E28. DOI: <https://doi.org/10.1148/radiol.2020202439>
2. Tao Chen et al. “**Classification with a disordered dopant-atom network in silicon**”. In: *Nature* 577.7790 (2020), pp. 341–345. DOI: <https://doi.org/10.1038/s41586-019-1901-0>

## Certificates

- 2023 **University Teaching Qualification**, Radboud University, Faculty of Science
- 2016 **ASML Technology Scholarship**, ASML
- 2012 **Certificate of Proficiency in English (C2)**, Cambridge English

## Skills

- Programming** Python, Bash, LaTeX, MATLAB, Docker
- Python libraries** PyTorch, Tensorflow, scikit-learn, numpy, pandas

# Teaching

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## Student supervision

FACULTY OF SCIENCE, RADBOUD UNIVERSITY

- Nathan Golden, MSc Data Science
- Evgenia Martynova, MSc Data Science
- Mirjam E.J. Davidse, Juliëtte Geurts, Hanneke Kruijt, Afke Vermeulen, BSc Technical Medicine

Sep. 2022 - Mar. 2023

Mar. 2021 - Aug. 2021

Mar. 2021 - Jun. 2021

## Intelligent Systems for Medical Imaging (MSc)

FACULTY OF SCIENCE, RADBOUD UNIVERSITY

- Lecturer, coordinator of assignments

*Spring 2022, 2023*

## Artificial Intelligence for Health (BSc)

FACULTY OF MEDICAL SCIENCES, RADBOUD UNIVERSITY

- Lecturer, co-coordinator course

*Spring 2021, 2022, 2023*

## Text and Multimedia Mining (MSc)

FACULTY OF ARTS, RADBOUD UNIVERSITY

- Exam design, coaching project groups

*Fall 2021*

## Data Mining (BSc)

FACULTY OF SCIENCE, RADBOUD UNIVERSITY

- Teaching assistant

*Fall 2021*