

# 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 on 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 / equal contribution

1. Bram de Wilde, Richard PG ten Broek, and Henkjan Huisman. "Cine-MRI detection of abdominal adhesions with spatio-temporal deep learning". In: *Medical Imaging with Deep Learning* (2021)
2. Bram de Wilde, Anindo Saha, et al. "Medical diffusion on a budget: textual inversion for medical image generation". In: *arXiv preprint arXiv:2303.13430* (2023)
3. Natália Alves and Bram de Wilde. "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
4. Henri Tertilt et al. "Hopping-transport mechanism for reconfigurable logic in disordered dopant networks". In: *Physical Review Applied* 17.6 (2022), p. 064025
5. 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
6. Bastiaan AW van den Beukel et al. "Quantifiable Measures of Abdominal Wall Motion for Quality Assessment of Cine-MRI Slices in Detection of Abdominal Adhesions". In: *Journal of Imaging* 9.5 (2023), p. 92

### Co-author

6. 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
7. Tao Chen et al. "Classification with a disordered dopant-atom network in silicon". In: *Nature* 577.7790 (2020), pp. 341–345

## Certificates & Awards

- 2023 **University Teaching Qualification\***, Radboud University, Faculty of Science (\*Evaluation in July)
- 2016 **ASML Technology Scholarship**, €10,000 MSc funding, ASML
- 2012 **Certificate of Proficiency in English (C2)**, Cambridge English

## Skills

- Programming** Python, Bash, LaTeX, MATLAB, Docker, SLURM
- 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*