MARYSIA WINKELS

✉ hello@marysia.nl www.marysia.nl

EDUCATION

MSc. Artificial Intelligence — 2014 – 2018
University of Amsterdam
Thesis supervised by Max Welling on data-efficient geometric deep learning on 3D medical images.

BSc. Artificial Intelligence — 2011 – 2014
University of Amsterdam
Honours programme; minor Language Philosophy

EXPERIENCE

Professional Volunteer (Science Communication) — 2022 – now
510 | *An Initiative by the Netherlands Red Cross*

PyData Community Organiser (volunteer) — 2019 – now
NUMfocus

Lead Data Scientist — 2022 – now
Vattenfall (via GoDataDriven | Xebia)

Data Science Consultant — 2022 – now
GoDataDriven | *Xebia*

Data Science Educator — 2020 – 2022
GoDataDriven | *Xebia*

Deep Learning Scientist — 2016 – 2020
Aidence

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MISC PROJECTS

Data-Centric AI competition 2022
Winner in "most-innovative" category with Roel Bertens & Rens Dimmendaal
Model performance optimalization through dataset engineering.

Kaggle Data Science Bowl 2017 2017
3rd place out of 1,972 with Aidence
Early-stage lung cancer detection on abdominal CT scans.

Amsterdam University Medical Center (UMC) 2020
Research project on automatic detection and classification of cardiac abnormalities, with a focus on distinguishing sinus rhythm from atrial fibrillation on single-lead ECGs.

Aidence (internship) 2016
Research project on meniscal tear detection in 3D knee MRI, which involved automatic parsing of the radiology reports to extract labels, pre-processing the 3D volumetric image data, and implementing deep learning architectures for medical image segmentation and classification.

Microsoft (internship) 2015
Customer targeting machine learning solution for Advanced Enterprise Marketing.

PUBLICATIONS

M. Winkels & T. S. Cohen, Pulmonary Nodule Detection with 3D G-CNNs. *Medical Image Analysis Journal*, 2019.

M. Winkels & T. S. Cohen, 3D Group-Equivariant Neural Networks for Octahedral and Square Prism Symmetry Groups. *ICML*, 2018. *Accepted for an oral presentation.*

M. Winkels, T. S. Cohen, M. Welling. 3D G-CNNs for Pulmonary Nodule Detection. *MIDL*, 2018. *Accepted for an oral presentation.*

M. Winkels *et al.* Challenge balancing for a kanji e-tutoring system. *BNAIC*, 2018. *Accepted for an oral presentation.*

January 13, 2023