MARTIJN VAN ATTEKUM, MD, PhD

Lead ML Data Scientist
Pharma & Biotech
Mountaineer

contact

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HIGHLIGHTS

- Experienced **ML data scientist / engineer**: (co-)developed several biomedical machine learning platforms and (gen)omics pipelines.

- Strong **project leader** and collaborator: headed several multi-disciplinary scientific and software dev teams, resulting in the realisation of project goals and 7-figures funding.

- Effective **communicator**: (co-)author of 8 publications in peer-reviewed scientific journals (of which 5 as first author, mean impact factor 12.1), Forbes and TowardsDataScience articles. First reviewer of the bestseller *The 100 Page Machine Learning Book*.

KEY SKILLS

Personal	Coding	Languages
• Smart creative	• Python (numpy, scipy, pandas)	• English (near native)
• Problem solver	• R (devtools, tidyverse, bioconductor)	• German (C1)
• Lifelong learner	• Deep learning (Pytorch, scikit, TF)	• Swedish (A1)
• Innovator	• AWS cloud, Spark, Javascript	• Dutch (native)

WORK EXPERIENCE

2023-now
hybrid

Principal Data Scientist AI/ML at Boehringer Ingelheim Pharma GmbH
- Leading data analyses for target discovery projects (modeling multi-omic data)
- Defining a strategy to use LLMs for predictive modeling on biomedical data
- Driving quality improvement of data analyses (process definition, scaling, and automation)

2019-2023
remote

Technical Lead at Scailyte AG - A single-cell AI precision diagnostics company (and various positions in the data science team previously, see my LinkedIn page)
- Led the development of the company's core ML platform (ScaiVision), providing technical supervision of the 5-person Data Science team
- Improved development practices by setting up CI/CD pipelines and defining coding standards (using e.g. Bitbucket, Jenkins)
- Set up a novel metadata management system that follows FAIR data principles

2019-2019
remote

Visiting AI Researcher at AI start-up deepkapha.ai
- Contributed to medical deep learning solutions for different clients

2017-2019
hybrid

Computational Biologist and project lead in the department of Translational Genomics (prof. Roman Thomas), University of Cologne
- Led a drug target discovery team of 3 people
- Implemented a sequence model for protein localisation prediction
- Co-developed the department's (single cell) RNA sequencing pipeline

2011-2016
onsite

Scientist (PhD candidate) in Immunohematology at Amsterdam UMC
- Identified new leukemia drug targets using in vitro and bioinformatic approaches

EDUCATION

➤ Completed various specialization programs from **deeplearning**.ai / Coursera:

2023	Practical Data Science on the <u>AWS Cloud</u>
2023	Generative Adversarial Networks (<u>GANs</u>)
2022	Machine Learning Engineering for Production (<u>MLOps</u>)
2022	<u>Natural Language Processing</u>; specialization focusing on the latest NLP techniques
2021	<u>AI for Medicine</u>; follow-up specialization focused on medicine
2018	<u>Deep Learning</u>; specialization covering network optimization, convolutional neural networks, and sequence models.

➤ Completed various specialization programs on **mathematics** and **statistics**:

2021	Mathematics for Machine Learning (Imperial College London via Coursera)
2019	Probability and Statistics in Data Science Using Python (UCSD via edX)

➤ University of California San Diego via Coursera

2015-2016	<u>Bioinformatics</u> program; specialization covering the core bioinformatics class of the UCSD *Bioinformatics and Systems Biology* program. Completed with honors.

➤ Maastricht University (Dual programme)

2001-2009	<u>Medicine</u> (M.D.)

- Clinical practical: medical oncology and radiotherapy (6 months)
- Scientific practical (at the Karolinska Institute, Stockholm): Investigating MYC-targeting MOA of small molecular compounds. Grade: excellent. (6 months)

2002-2009	<u>Biomedical Sciences</u> (B.Sc.)

- Best grade in class for 3 statistics courses

ACTIVITIES

2012-2013	Co-organizer of the annual Immunology retreat for >100 PhD students of the joint Amsterdam research centers
2011-2012	Social activities committee member of the Experimental Immunology dept.
2004-2005	Board member of study association Helix (commissioner of education)
2001-2008	Member of student association Circumflex. Committees: DJ, photo, bar

➤ other: music (impro, jazz, mixing), photography, chess, sports (cycling, alpinism)