



## MARTIJN VAN ATTEKUM, MD, PhD

Data Scientist  
Medical AI Researcher  
Scientific Writer  
Mountaineer

### HIGHLIGHTS

- Experienced medical AI data scientist and programmer in Python/R/Bash, responsible for the (co-)development of several genomics pipelines and biomedical deep learning platforms.
- Effective communicator, as demonstrated by 7 scientific journal publications (5 first author, mean impact factor 7.6), being selected as first reviewer of The 100 Page Machine Learning Book, and Forbes co-authorships on AI articles.
- Strong project manager and collaborator: headed several multi-disciplinary teams and supervised 5 students on several different projects, resulting in continued funding and top 10% marks for the student projects.

### KEY SKILLS

#### Personal

- Conceptualizer
- Complex problem solver
- Quick and self learner
- Inventive
- Entrepreneurial
- Intellectually curious
- Analytical

#### Programming Languages

- Python (numpy, scipy, pandas, matplotlib)
- R (devtools, tidyverse, bioconductor)
- Deep learning (Pytorch, scikit-learn, Tensorflow)
- C, Bash

#### Natural Languages

- English (near native)
- German (C1)
- Swedish (A1)
- Dutch (native)

### WORK EXPERIENCE

- 2019 - now Data Scientist at single-cell precision diagnostics company Scailyte AG
  - Leading the development of the biomarker discovery AI platform
  - Driving data mining operations
- 2019 - now Visiting AI researcher at AI start-up deepkapha.ai
  - Contributing to medical deep learning solutions for different clients
- 2017-2019 Computational biologist and project lead in the department of Translational genomics (prof. Roman Thomas), University of Cologne.
  - Leading a target discovery team of 3 people
  - Providing computational support for my own and other projects
  - Co-developed the department's (single cell) RNA sequencing pipeline
- 2011-2016 Scientist (PhD candidate) in Immunohematology at Amsterdam UMC
  - Target identification using in vitro and bioinformatic approaches
  - Supervised 2 students and 2 research professionals
- 2011-2011 Senior teacher in science / biology at high schools for the National Exam Training

## EDUCATION

2020 - now	<p>Deeplearning.ai / Coursera</p> <p><u>AI for Medicine</u>; follow-up deep learning specialization focused on medicine</p>
2018-2018	<p>Deeplearning.ai / Coursera</p> <p><u>Deep learning</u>; online specialization covering network optimization, convolutional neural networks, and sequence models. <a href="https://bit.ly/2tT9aSC">https://bit.ly/2tT9aSC</a>. GPA 99/100.</p>
2016-2017	<p>HarvardX / edX</p> <p><u>Genomics data analysis</u> program; online specialization covering the analysis and interpretation of microarray and NGS data. <a href="http://bit.ly/2nUEEbA">http://bit.ly/2nUEEbA</a>. GPA 98/100.</p>
2015-2016	<p>University of California San Diego / Coursera</p> <p><u>Bioinformatics</u> program; online specialization covering the core bioinformatics class of the UCSD "Bioinformatics and Systems Biology" program. <a href="https://www.coursera.org/specializations/bioinformatics">https://www.coursera.org/specializations/bioinformatics</a>. Completed with honors.</p>
2001-2009	<p>Maastricht University</p> <p><u>Medicine</u> (M.D.)</p> <ul style="list-style-type: none"> <li>• Patient care practical oncology: medical oncology and radiotherapy (6 mths)</li> <li>• Scientific practical: "Characterisation of the Myc specificities of small molecular compounds" at the Karolinska Institute (Marie Henriksson's group), Stockholm (graded "excellent") (6 mths)</li> </ul>
2002-2009	<p><u>Biomedical Sciences</u> (B.Sc.)</p> <ul style="list-style-type: none"> <li>• Best grade in class for 3 statistics courses</li> </ul> <p>courses: practical deep learning for coders (fasti.ai), probability and statistics in data science using Python (edX)</p>

## ACTIVITIES

2012-2013	Co-organized annual Immunology retreat for PhD students of the joint Amsterdam research centers (Triple I retreat)
2011-2012	Member of social activities committee of the department of Experimental Immunology
2004-2005	Board member of study association Helix (commissioner of education)
2001-2008	Member of student association Circumflex, participated in DJ committee, photo committee and bar committee

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

## AWARDS

- Immunotools award for innovative cytokine research
- Poster prize at the international workshop on chronic lymphocytic leukemia
- Research fellowship from MSD to conduct scientific practical
- Selected to participate in Roche continents: "Arts meets science"
- Highest music school grade (D) in saxophone