

Matthias Wright

Curriculum Vitae

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Education

- 10/2018 – 09/2019 **Machine Learning and Autonomous Systems**
Master of Science (Graduating in September)
Current Average: 80.3 % UK Grade (Distinction)
University of Bath, United Kingdom
- 09/2015 – 08/2018 **Applied Mathematics and Computer Science**
Bachelor of Science
Aachen University of Applied Sciences, Germany
- 09/2015 – 08/2018 **CCI-Certified Software Developer**¹
RWTH Aachen University
- 08/2002 – 06/2015 **A-levels (High School Diploma/Abitur)**
Rudolf Steiner School Aachen (Waldorf School)

Work Experience

RWTH Aachen University Aachen, Germany
Software Developer Sep 2015 – Aug 2018

- Worked 20 hours per week during the semester and full-time during semester breaks
- Worked mostly on web applications (Java)

Projects

Neural Style Transfer with Deep Learning (Working Title)
Master's Thesis May 2019 – Present

- Developed a style transfer model similar to CycleGAN (Zhu et al., 2017)
- Implemented with Python and PyTorch
(more details on my homepage)

Detecting Abnormalities in Clinical Data with GANs
Bachelor's Thesis Apr 2018 – Aug 2018

- Used a GAN to detect cardiac arrhythmia in ECG recordings by only training on normal ECG recordings
- Implemented with Python and TensorFlow
(more details on my homepage)

Programming Languages

Proficient Java, Python
Elementary C++

Frameworks/Technologies

Intermediate PyTorch, NumPy, Git, \LaTeX
Elementary TensorFlow, SQL

Languages

Native German
Fluent English
Elementary French

Relevant Coursework

Postgraduate
Machine Learning 1
Machine Learning 2
Bayesian Machine Learning
Statistics

Undergraduate
Linear Algebra
Probability and Statistics
Machine Learning
Algorithms and Data Structures
Programming
Calculus

¹ I completed a degree apprenticeship program called MATSE offered jointly by RWTH Aachen University, FH Aachen University of Applied Sciences, and the Chamber of Commerce and Industry, Aachen. As part of this program, I completed a bachelor's degree program in Applied Mathematics and Computer Science at FH Aachen and a CCI-certified vocational training program in Software Development at RWTH Aachen while working as a junior software developer at the Department of Medical Informatics at RWTH Aachen. More information is available here: <http://bit.ly/degree-program>