

# Matthias Wright

## Curriculum Vitae

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## Education

- 10/2018 – 09/2019 **Machine Learning and Autonomous Systems**  
Master of Science (Graduating in September)  
Currently ranked #1 in Class  
*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 **Software Developer**  
Vocational Training Certificate<sup>1</sup>  
*Chamber of Commerce and Industry*, Germany
- 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

- A Siamese Architecture for Neural Style Transfer**  
Master's Thesis May 2019 – Sep 2019
- 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,  $\text{\LaTeX}$   
Elementary TensorFlow, SQL, Git

## 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

<sup>1</sup> I completed a degree apprenticeship program called MATSE offered jointly by RWTH Aachen University, 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 Aachen University of Applied Sciences 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>