

# David Biertimpel

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## Education

Sep/2018 — expected Sep/2020

**Artificial Intelligence MSc** at University of Amsterdam. Current focus lies on the theoretical aspects of machine learning and reinforcement learning, further I am interested in medical imaging. GPA: 8.2

Oct/2014 — Aug/2018

**Human-Computer Interaction BSc** at University of Hamburg. Strongly interdisciplinary degree, combining the fields of computer science, psychology and design. Focus on human-robot Interaction, biopsychology and creating intuitive interfaces. Final GPA: 1.7 ~ 8.0

Aug/2009 — May/2012

**High-school diploma** at Heinrich-Hertz Schule, Hamburg.

## Skills

### Languages

native German speaker  
proficient in English (IELTS: 7.5)

### Programming

- Fluent in Python including:  
SciPy • OpenCV • PyTorch • Keras
- Fluent in Matlab
- Experience in JavaScript • Java • C#
- Basic skills in Scheme

## Coursework (selection)

### Graduate

Computer Vision 1 & 2  
Machine Learning 1 & 2 (curr. ongoing)  
Reinforcement Learning (curr. ongoing)  
Deep Learning (finishing in Nov/Dec 19)  
Natural Language Processing 1  
Brain Imaging

### Undergraduate

Software Development 1, 2 (OOP)  
Software Development 3 (λ)  
Algorithms & Data Structures  
Data Mining  
Foundations of Knowledge Processing  
Biopsychology  
Social Psychology

## Work Experience

Jun/2019 — ongoing

**Research intern** at the the Spinoza Centre for Neuroimaging supervised by Dr. Tomas Knapen. Analyzing fMRI data corresponding to naturalistic video sequences to understand the connectivity of brain regions in auditory and visual coordinates. [://spinozacentre.nl/](http://spinozacentre.nl/)

Nov/2017 — May/2018

**Student employee** at WISTS group of the Computer Science Department at the University of Hamburg. Design and implementation of an conversational agent with Keras, SciPy and SpaCy.

[:// inf.uni-hamburg.de/inst/ab/wists/home.html](http://inf.uni-hamburg.de/inst/ab/wists/home.html)

May/2015 — Oct/2015

**Student employee** at the Ad Operations Team at ForwardAdGroup (now BurdaForward). Design and implementation of ad templates with HTML, CSS and JavaScript. Implementation of in-house web applications.

[:// burda-forward.de](http://burda-forward.de)

Jan/2014 — Mar/2014

**Intern** at the interactive and web design company Siteway. Contributed to the front-end design of web applications. Independently implemented websites with HTML, CSS and JavaScript. [:// siteway.de](http://siteway.de)

## Bachelor's thesis

Implemented and evaluated a deictic gesture interface with the humanoid robot NICO. Worked extensively with OpenCV and SciPy and combined classical computer vision techniques with an unsupervised learning approach. Final grade 1.0 ~ 10 [:// github: d4vidbiertmpl/Bachelors-thesis](https://github.com:d4vidbiertmpl/Bachelors-thesis)

## Voluntary Activities

Aug/2012 — Jul/2013

Participation in the 'weltwärts' programme of the GIZ (Gesellschaft für Internationale Zusammenarbeit GmbH), a development agency affiliated to the German government. [:// giz.de/en/](http://giz.de/en/)

**Volunteer Coordinator** at the NGO Grace House Community Centre and later at the British charity Globalteer both located in Siem Reap, Cambodia. Supported and supervised current short-term volunteers. Involvement in several office tasks, participation in the Globalteer Sports Program. Worked with a Cambodian youth group in the evening at Grace House. [:// gracehousecambodia.net/](http://gracehousecambodia.net/) • <https://www.globalteer.org/>