

Jan Hünermann

janhuenermann.com

@janhuenermann (Github/Twitter)

1. Education

- 10/2017 – present **Technical University Munich**
Bachelor of Science (BSc)
Electronic and Computer Engineering
- 08/2009 – 05/2017 **Apostelgymnasium Köln**
Abitur (1.5)
Advanced courses: Math, Engineering

2. Experience

- 11/2018 – present **Technical University Munich**
- Research Assistant, Chair for Data Processing
Modelling human emotion in videos using machine learning.
Development of data collection platform and models.
Tools: Python, TypeScript, SQL
 - Tutor, Digital Design, Chair for Integrated Systems
Tools: PowerPoint
- 05/2017 – 09/2017 **Demodern GmbH, Intern**
Developed AR and AI apps, e.g. recognizing a hand-drawn racetrack on a sheet of paper and placing cars in augmented reality on top of it.
Worked for clients such as Cisco, Mazda, IKEA, and more.
Tools: Swift, JavaScript, PHP, TensorFlow, ARKit, Sketch
- 07/2013 – 04/2017 **Self-employed**
Design and development of web and mobile applications for clients like dakonix GmbH, Marienburger Golf-Club or medi during high school.

3. Projects

- 06/2018 **Abstract Art with ML**
Blog post about compositional pattern producing networks. Retweeted by members of Google Brain team. Tools: TensorFlow-JS
- 01/2017 **Self-driving Cars in the Browser**
Project about neural network-based reinforcement learning agents that taught themselves to race around in a 2D top-down environment and avoid obstacles. 100k views, featured in press by DigitalTrends, digg, more. 4.1k stars on GitHub. Tools: JavaScript
- 04/2018 – 10/2018 **Marienburger Golf-Club**
Redesign and development of website, with special focus on communicating the club's heritage. Tools: PHP, JS, SASS, Sketch
- 07/2013 **medi Freeway**
Run-tracking iOS app for medical purposes. Tools: Objective-C

4. Volunteering

- 09/2018 – present **TUfast e.V. Racing Team**, Driverless Perception Engineer
Focus on simulation-based training of deep CNNs. Development of model that later trained on LRZ DGX-1 and HPC of HPI Potsdam, as well as inference code running on the race car itself.
Tools: Python, PyTorch, ROS, C++, Unity
- 09/2018 – present **TUM International Center (ESN)**, Tutor
Organization of events for ingoing exchange students at TUM.

5. Further experiences and certificates

- 08/2018 TUM EURECOM BMW Summer School
1-week summer school about machine learning in Raitenhaslach. Full scholarship by BMW. Held poster presentation "Abstract Art with ML".
- 06/2018 Techfest (Hackathon)
Development of proof-of-concept smart glove. 3rd place in track.
- 12/2016 TOEFL English Test, 110 points
- 01/2016 ICACC'16 in Daytona Beach, USA
Presentation of a 3D-printed and coated quadcopter at the international material science conference ICACC.
- 06/2015 – 07/2015 EF International Campus, Singapore
English Language Program; lived with Singaporean family for 2-months, learned a lot about Asian culture and made many international friends.

6. Personal information

- Interests - running, surfing, skiing, hiking, being immersed in nature
- personal projects, which are published on my blog or GitHub
- Skills Machine learning; web design, app development (iOS);
JavaScript, Python, SQL, Lua, Swift, PHP, C++, C, Objective-C, HTML, CSS, etc; MATLAB, CAD, Sketch (design), Google SketchUp; MS-Office
- Languages German (mother tongue)
English (C1)
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- Date of birth 9th of June 1999
- Birthplace Cologne, Germany