Matthias Plappert

Curriculum Vitae

Education

2015–2017   **Computer Science (M.Sc., with distinction)**, *Karlsruhe Institute of Technology*.
Focus on machine learning and robotics.

2011–2015   **Computer Science (B.Sc.)**, *Karlsruhe Institute of Technology*.
Focus on electrical engineering, cryptography, and machine learning.

Publications

For a complete and up-to-date list of publications, please refer to `http://matthiasplappert.com`.

Experience

2018
Jan.–present   **Member of Technical Staff**, *OpenAI Inc.*, San Francisco.
Research in machine learning, especially deep reinforcement learning, with applications in robotics.

2017
Apr.–Sept.   **Member of Technical Staff (Intern)**, *OpenAI Inc.*, San Francisco.
Research in machine learning, especially deep reinforcement learning, with applications in robotics.

2015–2016
Oct.–Jun.   **Student Research Assistant**, *KIT*, Karlsruhe.
Research in the areas of human motion analysis, dimensionality reduction of human motion, and deep reinforcement learning for applications in robotics. Development of various scientific tools to conduct the aforementioned research.

2013–2015
May–Mar.   **iOS Software Engineer**, *PSPDFKit GmbH*, Karlsruhe/Vienna.
Development of new features and maintenance of existing ones for the leading PSPDFKit framework for iOS. Work was conducted remotely together with an international team of more than 20 people, which required strong communication and organizational skills.

2012–2013
Oct.–Mar.   **iOS Software Engineer Intern**, *Square Inc.*, San Francisco.
Conception and development of a hardware abstraction layer to integrate different peripherals into an iOS POS system. The integration required frequent communication and coordination with members of other teams like electrical engineering and product design.

2010–2011
Sept.–Feb.   **Alternative Civilian Service ("Zivildienst")**, *RKU*, Ulm.
Support of paraplegic patients during treatment in rehabilitation.

Projects

2016   **keras-rl**, *Deep Reinforcement Learning with Keras*.
`https://github.com/matthiasplappert/keras-rl`

2015–2016 **Motion Annotation Tool**, *Crowd-sourced Annotation of Human Motion*.
https://motion-annotation.humanoids.kit.edu

2015 **PiBot**, *A simple Robot Platform based on a Raspberry Pi*.
https://github.com/matthiasplappert/pibot

2007–2012 **phaps**, *Side Business for App and Web Development*.
Development of iOS apps for sale on the App Store as well as contract development of iOS and web apps for various customers.

Awards

2016 **Campus Days Award "Lehre^{Forschung}"**, Karlsruhe.
Awarded by the Karlsruhe Insitute of Technology (KIT) for outstanding student research activities.

2010 **Jugend debattiert**, *State Finals*, Stuttgart.
2nd place in the *Jugend debattiert* (youth debates) state finals (Baden-Württemberg).

2010 **Jugend debattiert**, *Regional Finals*, Ulm.
1st place in the *Jugend debattiert* (youth debates) regional finals (Ulm).

2010 **DPG Buchpreis**.
Awarded by the *Deutsche Physikalische Gesellschaft* (DPG, German Physical Society) for excellent achievements in physics.