

# Marin Vlastelica Pogančić

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## Work Experience

01/2017 – today

### Research fellowship

Blue Brain Project, Ecole Polytechnique Fédérale de Lausanne, Geneva, Switzerland

- Research in application of spiking neural networks and brain simulation in team of prof. Marc-Oliver Gewaltig.

12/2016 – today

### Student collaborator

Forschungszentrum Informatik, Karlsruhe, Germany

- Segmentation and classification of point clouds as unordered sets using neural networks.

11/2016 – today

### Student research assistants

Digital Accelerator A79 from Energie Baden Wuerttemberg, Karlsruhe, Germany

- Constructing a blockchain based decentralised energy market, a continuation of the project which won 1st place in Microsofts Hack@Home hackathon in Germany.

04/2016 – 07/2016

### Data analytics intern

IBM Research & Development, Stuttgart, Germany

- Data analytics in Apache Spark
- CitiBike data analytics and predictors

02/2015 – 04/2016

### Student research assistant

Forschungszentrum Informatik, Karlsruhe, Germany

- Autonomous vehicles
- Map improvement through car sensor data (GPS, laser sensor data, camera)
- ROS framework

11/2015 – 03/2016

### Student research assistant

Fraunhofer IOSB, Karlsruhe, Germany

- Knowledge modelling using Bayesian networks, improving the EM algorithm in Java
- Building a GUI

06/2015 – 09/2015

### Student research assistant

Computer Vision for Human – Computer Interaction Lab, Karlsruhe, Germany

- Videoanalysis through machine learning techniques using the Sklearn framework and liblinear. Building and training classifiers for different feature types: SIFT, improved dense trajectories, deep features using Caffe framework with SVM.
- Published paper for the MediaEval challenge that shows the performance of the fused approach: <http://ceur-ws.org/Vol-1436/Paper30.pdf>.

## Education

10/2014 – 06/2017	<b>Master Computer Science</b> Karlsruhe Institute of Technology, Karlsruhe, Germany Fields of study: Machine learning, robotics, cognitive systems, cloud computing.
10/2014 – 04/2016	<b>Master Computer Science</b> Fakultet Elektrotehnike i Racunarstva, Zagreb, Croatia Fields of study: Cognitive systems, cloud computing.
10/2011 – 07/2014	<b>Bachelor Computer Science</b> Fakultet Elektrotehnike i Racunarstva, Zagreb, Croatia Fields of study: Machine learning, algorithms, math, electrical engineering, physics. Thesis subject: Evolving minimal addition chain exponentiation Title: <b>Bachelor Sc. Computer Science</b>
09/2007 – 07/2011	<b>Highschool</b> III. Mathematical Gymnasium Split, Croatia

## Awards and Projects

DEX	Won 1st place at the Hack@Home Microsoft hackathon in Germany by building a decentralised energy market on the blockchain.
Realestate Investment	Won the CampusHack Karlsruhe event by building an app to make investment recommendations in the real estate market.
News Analysis App	Built app for analysing news from different sources as part of HackZurich.
Robot Vision	Implemented face detection and recognition for an assistive robot at the Forschungszentrum Informatik, Karlsruhe.
Road Lane Detection	Implemented a real-time lane detection system for autonomous cars based on ImageNet in Caffe at the Forschungszentrum Informatik.
Compiler	Developed a compiler as part of a university project.

## Skills

Programming Languages	Java; C++/ C; Python; Scala; JavaScript; HTML; CSS
Frameworks	Sklearn; Keras; Tensorflow; ROS; Apache Spark; Node.js
Languages	Croatian native; English C1; German C2; Spanish A2; Chinese A1

## Interests

Hobbys	Web development, server administration, travelling, guitar, piano, violin, capoeira, swimming, skiing, snowboarding.
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