# **Manuel Pasieka**



## Contact



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github.com/mapa17



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movescount

### Skills

**Software Development** 

**Machine Learning** 

**Data Analysis** 

# Languages



# **Machine Learning & Software Development Expert**

I am eager to work with machine learning experts to solve problems of automatic decision making and general artificial intelligence (e.g. learning, search and decision making).

# **Experience & Education**

0

2012

#### Scientific Software Engineer

#### Master in Artificial Intelligence

present 2018

#### **Biocomp / Vienna Biocenter Core Facilities**

Developing serval data analysis applications used by neuroscience researchers to study the amygdala circuit in the mouse brain.

In particular application to automatically quantify and analyze animal behavior, and software to process and analyze neuronal activity.

- Programming in Python, Matlab, R
- Data Visualization: matplotlib, seaborn
- Data Processing: numpy, pandas
- Data Analysis: scipy, scikit-learn

#### Universidad Internacional de La Rioja

Master Thesis: Not defined yet

- Cognitive Neuroscience
- Automatic reasoning and planing - Natural Language Processing
- Deep Learning

Master in Parallel and Distributed Computing

# 2012 2010

### Research Assistent

2011

#### Universidad Politécnica de Valencia

Developing a simulation environment controlled by a stationary replica of a autonomous vehicle.

- Programming in Python, C
- Developing simulation software

### Universidad Politécnica de Valencia

Master Thesis: "Peer selection and Bandwidth allocation methods in BitTorrent Systems"

- Distributed Systems
- P2P Networks
- Parallel Computing
- High performance computing

2010

2000

# **Embedded System Engineer**

### Adaptivia GmbH

Programming of 16 bit low power SoC devices for wireless underground sensor networks.

- Embedded system engineering
- Programming in C
- System and Network design

### Bachelor of Technical Informatics

2009 2005

### **Technical University Vienna**

Bachelor Thesis: "Course Timetabling using Constraints satisfaction programming"

- Software Development
- Embedded system engineering
- Computer Theory

**Various Internships** 

Database Developer System Administrator Infrastructure Maintances Warehouse clerk Project Assistant

### **Publications**

Pliota, P., Böhm, V., Grössl, F., Griessner, J., Valenti, O., Kraitsy, K., Kaczanowska, J., **Pasieka, M.**, Lendl, T., Deussing, J. M. and Haubensak, W. (2018) 'Stress peptides sensitize fear circuitry to promote passive coping', *MolecularPsychiatry*.



Dr. Johannes Griessner, Manuel Pasieka, Mr. Vincent Boehm, Mr. Florian Grössl, Mrs. Joanna Kaczanowska. Dr. Pinelopi Pliota , Mr. Dominic Kargi, Ms. Barbara Werner , Dr. Nadia Kaouane , Ms. Sandra Strobelt , Dr. Silke Kreitz , Prof. Andreas Hess and Haubensak, W. (2018) 'Central amygdala circuit dynamics underlying the benzodiazepine anxiolytic effect', MolecularPsychiatry.