## **Manuel Pasieka**



### Contact



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movescount

### Skills

**Software Development** 

Machine Learning

**Data Analysis** 

**Problem Solving** 

# Languages



### Software Development & Data Science & Practical ML

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

# **Experience & Education**

0

2012

#### Scientific Software Engineer

### Master in Artificial Intelligence

presen 2018

2012

2010

#### **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 Rioia

Master Thesis: "Breakfastclub: Using an agent-based model to simulate a virtual classroom."

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

**Research Assistent** 

### 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 in Parallel and Distributed Computing

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

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

2010 2007

2007 2000

2012

2011

# Adaptivia GmbH

**Embedded System Engineer** 

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 Maintenance 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 Kargl, 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.