Manuel Pasieka



Contact



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github.com/mapa17



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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

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Scientific Softwa

2012

2012

2011

2010

2007

2007 2000

Scientific Software Engineer Master in Artificial Intelligence

present 2018

2012

2010

2009

2005

Facilities
Developing serval data analysis applications used by neuroscience

Biocomp / Vienna Biocenter Core

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 Master in Parallel and Distributed Computing

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

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

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

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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, *Molecular Psychiatry*.