

## Manuel Pasieka



Let's apply the power of Machine Learning to build great products and services for a better future!



Vienna, Austria



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manuel.pasieka@protonmail.ch



+43 681 8161 3940



github.com/mapa17



linkedin.com/in/manuelpasieka

## Skills

### Software Development

Python, R, Matlab, C (C#, CPP)

### Machine Learning

Tensorflow, PyTorch, scikit-learn

### Data Science

numpy, scipy, pandas  
matplotlib, seaborn, plotly

### Platforms & Technologies

Jenkins, Spark  
Docker, Kubernetes  
AWS, GCP

## Software Development & Data Science & Practical ML

### Freelancing

#### 2022 - present: Machine Learning Engineer

I help companies to leverage the power of Machine Learning for their Business.

### Work Experience

#### 2020 - present: Senior Machine Learning Engineer at MOSTLY.AI

Building the worlds best synthetic data generation engine that protects privacy of individual without sacrificing data quality.

- Researching and developing product improvements
- Customer support and training during PoC's
- Development of internal tools for dataset management and experiment automatization
- Training and supervision of junior data scientists

#### 2020: Data Scientist at Craftworks GmbH

Solution focused development of data science projects for customers from various industries.

- TensorFlow, Spark, Plotly

#### 2012-2019: Scientific Software Engineer at Vienna Biocenter Core Facilities

Developing data analysis applications used by neuroscience researchers. In particular applications to automatically quantify and analyze animal behavior, and software to process and analyze neuronal activity.

- Python, Matlab, R, matplotlib, seaborn numpy, pandas, scipy, scikit-learn

#### 2011-2012: Research Assistant at Universidad Politécnica de Valencia

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

- Python, C, ROS

#### 2007-2010: Embedded System Engineer at Adaptivia GmbH

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

- C, Embedded system engineering, System and Network design

### Education

#### 2018-2019: Master in Artificial Intelligence at Universidad Internacional de La Rioja

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

- Cognitive Neuroscience, Automatic reasoning and planning, Natural Language Processing, Deep Learning

#### 2010-2012: Master in Parallel and Distributed Computing at Universidad Politécnica de Valencia

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

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

#### 2005-2009: Bachelor in Computer Science at Technical University of Vienna

Bachelor Thesis: "Course Timetabling using Constraints satisfaction programming"

- Software Development, Embedded system engineering, Computer Theory

### 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', *Molecular Psychiatry*.



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 Strobel, Dr. Silke Kreitz, Prof. Andreas Hess and Haubensak, W. (2018) 'Central amygdala circuit dynamics underlying the benzodiazepine anxiolytic effect', *Molecular Psychiatry*.