



General

- jjm.aschersleben@gmail.com
- Groningen, the Netherlands
- +31 683 772 447
- jaschers
- jannaschersleben.com
- Jann Aschersleben

Skills

Programming Languages

Proficient with:

Python

Comfortable or Familiar with:

bash, C / C++, SQL, MATLAB, HTML & CSS

Machine Learning

Artificial Neural Networks, Boosted Decision Trees, Random Forest, Support Vector Machines, Linear Regression, Tensorflow, Keras, Scikit-learn

Data Science / Visualisation

NumPy, Pandas, Scipy, PySpark, Matplotlib

High-Performance Computing

Parallel Processing, Remote Job Submission, GPU Acceleration, Cloud Computing

Operating Systems

macOS, Linux, Windows

Miscellaneous

Git / GitLab, Jupyter Notebook, LaTex, Microsoft Office

Languages

- English (Proficient)
- German (Mother tongue)
- Dutch (Basic)
- French (Basic)

Reference

Prof. dr. Manuela Vecchi
University of Groningen
Email: m.vecchi@rug.nl

Jann Aschersleben

Data Scientist & Machine Learning Engineer

As an experienced physicist and PhD student, I possess a unique combination of advanced analytical, machine learning, and programming skills. I am a fast learner with a passion for data analysis and I am eager to apply my knowledge to practical problems. I am independent, proactive and a team player, who looks forward to interacting with your colleagues to tackle difficult problems and to drive innovation in your company.

Work Experience

2020 - present

University of Groningen, Groningen, The Netherlands

PhD Researcher in Physics

- Developed software to analyse large, complex datasets
- Applied machine learning algorithms to enhance performance
- Utilised high-performance computing for efficient data processing
- Visualised data for interpretation and decision support
- Collaborated with diverse, interdisciplinary teams
- Mentored Bachelor and Master students

2017 - 2019

Fraunhofer Institute for Laser Technology ILT, Aachen, Germany

Research Assistant

- Executed laser-based experiments and collected data
- Implemented programmatic models for data interpretation
- Wrote technical reports and presented results to members of the institute

Education

2018 - 2020

RWTH Aachen University, Aachen, Germany

Master of Science in Physics

2014 - 2018

RWTH Aachen University, Aachen, Germany

Bachelor of Science in Physics

Portfolio

PSNet

A convolutional neural networks for the analysis of astronomical data
Programming tools: Python, C

DAMSPI

A framework to analyse and visualise data from large astronomical simulations
Programming tools: Python

CheckmAIt

A chess bot based on a convolutional neural network (2500 Elo)
Programming tools: Python

Daily Paper

A tool to search online for scientific articles based on the user's keywords
Programming tools: Python

Scholarships

PhD Scholarship Programme

Awarded a PhD scholarship via a competitive process, evaluated by top physics and astronomy experts.

Certificates

MIT course on edX

Machine learning with Python - from linear models to deep learning