



## General

- jjm.aschersleben@gmail.com
- 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  
Final grade: 89 %