

Jonas Syed

Ph.D. Astronomy

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Astronomer embracing full-on data science and always excited to leverage many years of experience in advanced statistical techniques and coding to drive innovative problem-solving.

PROFESSIONAL EXPERIENCE

09/2019–10/2023

Max-Planck-Institut für Astronomie · Heidelberg 
GRADUATE STUDENT, POSTDOCTORAL RESEARCHER

- Conducted research on the physical processes of the interstellar medium.
- Applied data science techniques for the analysis of astronomical datasets.
- Developed machine learning software in Python to analyze observational data of the Milky Way.
- Used statistical analysis tools for evaluating machine learning models and validating assumptions.
- Documented software packages for future reference and collaboration.
- Published academic papers as the lead author.
- Delivered presentations at international conferences and prestigious institutions.

EDUCATION

09/2019–07/2023

Universität Heidelberg / Max-Planck-Institut für Astronomie · Heidelberg 
DOCTORATE

PhD thesis: "Atomic cloud formation processes – Constraining the properties of the atomic interstellar medium by means of H I emission and H I self-absorption"
Grade: "magna cum laude"

- Data science and analysis of astronomical datasets
- Version control and documentation via GitHub

SKILLS

PROGRAMMING

Python3.x NumPy SciPy pandas
machine learning SQL git/GitHub
TensorFlow PySide6 C MS Azure
HTML/CSS/JavaScript blender2.x/3.x
LaTeX Adobe CC Fortran MS Office

LATEST CERTIFICATES

- Machine Learning by Stanford University & DeepLearning.AI on Coursera. Certificate earned at February 3, 2024.

LANGUAGES

German	native
English	excellent
Bengali	intermediate