Jonas **Syed**

Ph.D. Astronomy

Jonas Syed *(he/him)*
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○ astrojoni89

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 ɪ emission and H ɪ 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