Jonas **Syed**

Ph.D. Astronomy

Dr. Jonas Syed *(he/him)*
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PROFESSIONAL EXPERIENCE

08/2023–10/2023	**Max-Planck-Institut für Astronomie** · Heidelberg 📍
	POSTDOCTORAL RESEARCHER

- Focus: Physical processes of the interstellar medium
- Data science and analysis of astronomical data sets
- Development of code and application software
- Documentation of software packages
- Publishing academic papers as lead author
- Presentations at international conferences

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 data sets
- Development of machine learning software in python to analyze observational data of the Milky Way
- Version control and documentation via GitHub
- Publishing academic papers as lead author
- Regular presentations at international conferences

04/2017–08/2019	**Universität Heidelberg / Max-Planck-Institut für Astronomie** · Heidelberg 📍
	MASTER OF SCIENCE

Focus: Astronomy and Astrophysics
Master thesis: "H I cloud formation – studying the ISM by means of H I self absorption"

- Data reduction and visualization of astronomical data sets
- Development of data analysis code

10/2013–03/2017	**Universität Heidelberg / Max-Planck-Institut für Astronomie** · Heidelberg 📍
	BACHELOR OF SCIENCE

Focus: Astronomy
Bachelor thesis: "Temperature and Kinematics of massive star forming clumps"

10/2012–09/2013	**Ludwig-Maximilian-Universität** · Munich 📍
	BACHELOR OF SCIENCE

Focus: Astronomy

Skills

Programming

`Python3.x` `blender2.x/3.x` `git` `GitHub` `LaTeX` `machine learning` `SQL` `HTML/CSS` `MS Azure` `JavaScript` `Adobe PS` `Adobe AE` `Adobe Pr` `Adobe Ai` `Fortran` `C` `Office`

Languages

German	native
English	excellent
Spanish	beginner
Bengali	beginner

Related volunteer experience

09/2011–now	**Asha – Hoffnung für Bangladesch e.V.** · Nuremberg 📍
	DIGITAL CONTENT CREATOR AND PROJECT DIRECTOR
	• Web design / social media content
	• Project coordination
	• Writing project proposals and applications in German and English

Selected publications

2023 *Cold atomic gas identified by* H I *self-absorption*, Astronomy & Astrophysics, in press
J. Syed, H. Beuther, P. F. Goldsmith, et al.
2022 *The "Maggie" filament: Physical properties of a giant atomic cloud*, Astronomy & Astrophysics, 657, A1
J. Syed, J. D. Soler, H. Beuther, et al.
2020 *Atomic and molecular gas properties during cloud formation*, Astronomy & Astrophysics, 642, A68
J. Syed, Y. Wang, H. Beuther, et al.