

Jonas Syed

Max-Planck-Institut für Astronomie • Königstuhl 17 • 69117 Heidelberg, Germany

Email: syed@mpia.de

Curriculum Vitae

Jonas Syed

(he/him)

Date of birth: August 26, 1992

Place of birth: Nürnberg, Germany

Citizenship: German

Education

- 09/2019 – Doctoral thesis (Astronomy)
Universität Heidelberg/Max-Planck-Institut für Astronomie
Study emphasis: Atomic and molecular cloud formation processes
Adviser: Prof. Dr. Henrik Beuther
- 04/2017 – 08/2019 Master of Science (Physics)
Universität Heidelberg/Max-Planck-Institut für Astronomie
Study emphasis: Astronomy and Astrophysics
Master thesis: “HI cloud formation – studying the ISM by means of HI self
absorption”
Adviser: Prof. Dr. Henrik Beuther
- 10/2013 – 03/2017 Bachelor of Science (Physics)
Universität Heidelberg/Max-Planck-Institut für Astronomie
Study emphasis: Astronomy
Bachelor thesis: “Temperature and Kinematics of massive star forming
clumps”
Adviser: Prof. Dr. Henrik Beuther
- 10/2012 – 09/2013 Bachelor of Science (Physics and Astronomy)
Ludwig-Maximilian-Universität München
Study emphasis: Astronomy

Professional experience

- 08/2011 – Asha – Hoffnung für Bangladesch e.V.
Voluntary service as project director and photographer
- 01/2012 – 06/2012 Informationswerk Nürnberg e.K.
Internship graphic design

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Research interests

Physics of the interstellar medium • Early stages of star formation • Magnetic fields • Star formation

Conferences/Schools attended

07/2021	Ringberg Meeting: Puzzles of Star Formation Schloss Ringberg, Germany
05/2021	ISM 2021 – Structure, characteristic scales, and star formation Beirut, Lebanon (online)
12/2020	Heidelberg-Harvard Physics of Star Formation 2020 Heidelberg, Germany (online)
11/2019	Harvard-Heidelberg Star Formation 2019 Cambridge, MA, USA
07/2019	THOR+friends meeting Berlin, Germany
10/2018	10 th IRAM Interferometry School Grenoble, France
11/2016	Physics of Star Formation: Milky Way and Beyond – A Heidelberg-Harvard workshop

Skills

Languages	German: native English: fluent Spanish: basic
IT/Programming	Advanced knowledge in Office, Adobe PS, Adobe AE, Adobe Pr Advanced knowledge in python/CASA (Common Astronomy Software Applications) Basic knowledge in Gildas CLASS (Continuum and Line Analysis Single-dish Software) Proficient at HTML

Publications

1st author publications

The "Maggie" filament: Physical properties of a giant atomic cloud [\[link\]](#)

2021, Astronomy & Astrophysics, in press

J. Syed, J. D. Soler, H. Beuther, Y. Wang, S. Suri, J. D. Henshaw, M. Riener, S. Bialy, S. Rezaei Kh., J. M. Stil, P. F. Goldsmith, M. R. Rugel, S. C. O. Glover, R. S. Klessen, J. Kerp, J. S. Urquhart, J. Ott, N. Roy, N. Schneider, R. J. Smith, S. N. Longmore, and H. Linz

Atomic and molecular gas properties during cloud formation [[link](#)]

2020, Astronomy & Astrophysics, 642, A68

J. Syed, Y. Wang, H. Beuther, J. D. Soler, M. R. Rugel, J. Ott, A. Brunthaler, J. Kerp, M. Heyer, R. S. Klessen, Th. Henning, S. C. O. Glover, P. F. Goldsmith, H. Linz, J. S. Urquhart, S. E. Ragan, K. G. Johnston, and F. Bigiel

Co-authored publications

Clustered star formation at early evolutionary stages. Physical and chemical analysis of the young star-forming regions ISOSS J22478+6357 and ISOSS J23053+5953 [[link](#)]

2021, Astronomy & Astrophysics, in press

C. Gieser, H. Beuther, D. Semenov, S. Suri, J. D. Soler, H. Linz, J. Syed, Th. Henning, S. Feng, T. Möller, A. Palau, J. M. Winters, M. T. Beltrán, R. Kuiper, L. Moscadelli, P. Klaassen, J. S. Urquhart, T. Peters, S. N. Longmore, Á. Sánchez-Monge, R. Galván-Madrid, R. Pudritz, and K. G. Johnston

On the accuracy of HI observations in molecular clouds -- More cold HI than thought? [[link](#)]

submitted to MNRAS

D. Seifried, H. Beuther, S. Walch, J. Syed, J. D. Soler, P. Girichidis, and R. Wünsch

The filamentary structures in the CO emission toward the Milky Way disk [[link](#)]

2021, Astronomy & Astrophysics, 651, L4

J. D. Soler, H. Beuther, J. Syed, Y. Wang, Th. Henning, S. C. O. Glover, R. S. Klessen, M. C. Sormani, M. Heyer, R. J. Smith, J. S. Urquhart, J. Yang, Y. Su, X. Zhou

Fragmentation and kinematics in high-mass star formation [[link](#)]

2021, Astronomy & Astrophysics, 649, A113

H. Beuther, C. Gieser, S. Suri, H. Linz, P. Klaassen, D. Semenov, J. M. Winters, Th. Henning, J. D. Soler, J. S. Urquhart, J. Syed, S. Feng, T. Moeller, M. T. Beltran, A. Sanchez-Monge, S. N. Longmore, T. Peters, J. Ballesteros-Paredes, P. Schilke, L. Moscadelli, A. Palau, R. Cesaroni, S. Lumsden, R. Pudritz, F. Wyrowski, R. Kuiper, and A. Ahmadi

The history of dynamics and stellar feedback revealed by the HI filamentary structure in the disk of the Milky Way [[link](#)]

2020, Astronomy & Astrophysics, 642, A163

J. D. Soler, H. Beuther, J. Syed, Y. Wang, L. D. Anderson, S. C. O. Glover, P. Hennebelle, M. Heyer, Th. Henning, A. F. Izquierdo, R. S. Klessen, H. Linz, N. M. McClure-Griffiths, J. Ott, S. E. Ragan, M. Rugel, N. Schneider, R. J. Smith, M. C. Sormani, J. M. Stil, and J. S. Urquhart