

Sarah Yousefizadeh

Personal Information

Nationality Iranian
Date and place of birth 5 Jan. 1990 in Tehran, Iran

Research Interests

Galaxy evolution
Single and multiple stellar populations
Stellar evolution
Massive and intermediate mass stars
Evolution of star clusters

Experiences

2015-2016 **Internship**, *Subject: Envelope inflation and pulsation of massive stars*, under supervision of Professor Norbert Langer, Argelander Institut für Astronomie (AlfA), university of Bonn, Bonn, Germany.

Education

2018(Sep)-Now **Ph.D. of Astrophysics**, *Institute for Advanced Studies in Basic Sciences (IASBS)*, Zanjan, Iran.

2012-2015 **Master of Astrophysics**, *Institute for Advanced Studies in Basic Sciences (IASBS)*, Zanjan, Iran.

Thesis title: Evolution of Rotating Stars and their Consequent on Color-Magnitude Diagram of Star Clusters.

Supervisor: Dr. Hossein Haghi

2008–2012 **Bachelor of Physics**, *Kharazmi University*, Tehran, Iran.

2004–2008 **Diploma in Mathematics and Physics**, *National Organization for Development of Exceptional Talents (NODET)*, Tehran, Iran.

Publications

- Conference proceedings**
- **Evolution of elements abundances in massive rotating stars using MESA code**, Proceeding's of the 21st IPM Physics Spring Conference Institute for Research in Fundamental Sciences, 2014, Tehran, Iran.
 - **Evolution of rotating very low metallicities stars using MESA code**, Proceeding's of the 8th National Meeting of Astronomy and Astrophysics of Iran, Amirkabir University of Tehran, 2015, Tehran, Iran.

Activities

2018 **Coauthor of Mathematics book**, *Moshaveran publication*, Tehran, Iran.

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- 2018 **Editor of physics book**, *Moshaveran publication*, Tehran, Iran.
- 2017 **Organizer of IASBS International School on Star Clusters with Gaia**, *Institute for Advanced Studies in Basic Sciences (IASBS)*, Zanjan, Iran.
- 2014 **Organizer of the astronomy's day party and leader of observation**, *Institute for Advanced Studies in Basic Sciences (IASBS)*, Zanjan, Iran.
- 2012 (summer) **President of the Astronomy Society**.
World Talent Agency, Tehran, Iran
- 2009 (spring) **Organizer of Astronomy Exhibition**.
Kharazmi University, Tehran, Iran
- 2009-2010 **Editor of quarterly newsletter**.
Kharazmi University, Tehran, Iran

Recent Talks and Presentations

- 2020(Jan) **Galaxy formation and evolution in the IGIMF theory**.
Proposal defense talk, IASBS
- 2018(Oct) **Extended rotation curves of spiral galaxies**.
Weekly presentation, Institute for Advanced Studies in Basic Sciences (IASBS)
- 2015(Mar) **Evolution of Rotating Stars and its Consequent on Color-Magnitude Diagram of Star Clusters**, Zanjan.
Thesis presentation, Institute for Advanced Studies in Basic Sciences (IASBS)
- 2015(Jan) **Tracking stellar evolution using MESA**, Zanjan.
mini workshop of MESA, Institute for Advanced Studies in Basic Sciences (IASBS)

Attended Conferences and Seminars

- **Advancing Theoretical Astrophysics summer school**, University of Amsterdam, Amsterdam, Netherland 14-27 July 2019.
- **IASBS International School on Star Clusters with Gaia**, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran, 7-10 May 2017.
- **20th Meeting on Research Astronomy**, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran, 11-12 May 2017.
- **19th Meeting on Research Astronomy**, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran, 12-13 May 2016.
- **8th National Meeting of Astronomy and Astrophysics of Iran**, Amirkabir University of Tehran, Tehran, Iran, 4-5 feb 2015. (Poster presentation)
- **International meeting of Galaxies Inside and Out**, Institute for Research in Fundamental Sciences, School of astronomy, Tehran, Iran, 25-28 January 2015.
- **21st IPM Physics Spring Conference**, Institute for Research in Fundamental Sciences, May 21-22, 2014 , Tehran, Iran. (Poster presentation)
- **7th National Meeting of Astronomy and Astrophysics of Iran**, Shahid Bahonar University of Kerman, Kerman, Iran, 23-24 January 2014.
- **17th Meeting on Research Astronomy**, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran, 15-17 May 2013.
- Workshop on **Optical Data Reduction**, School of Astronomy, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, 10 May 2013.
- Workshop on **Astronomy Instrumentation (Telescopes and Detectors)**, School of Astronomy, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, 9 May 2013.
- Workshop on **Linux and shell scripting for Astronomy**, School of Astronomy, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, 2 May 2013.
- Workshop on **Writing and Publishing Scientific Papers** , Sharif University of Technology, Tehran, Iran, 20-21 February 2013.
- **National Meeting of Cosmology and Gravitation**, Shahid Beheshti University, Tehran, Iran, 30-31 January 2013.

Computer skills

Operating Systems	Linux, Windows
Programming Languages	FORTRAN, Bash, HTML, Python
Scientific Softwares	Gnu-plot, \LaTeX
	MESA code (Modules for Experiments in Stellar Astrophysics)
	N-body6
	Mathematica
Other Softwares	Microsoft Office, Photoshop

Languages

Persian	Native
English	upper intermediate

Hobbies

- Mountaineer (Member of University Mountain Climbing Group ICCG)
- Reading books, Poem, Literature
- Playing Musical instruments (sitar, cither)
- Music, Movies, Documentaries

References

Dr. Akram Hasani Zonouzi, Assistant Professor of Astrophysics, Institute for Advanced Studies in Basic Sciences.

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Dr. Hossein Haghi, (*thesis supervisor*), Associated Professor of Physics, Institute for Advanced Studies in Basic Sciences.

Fax: (+98) 24-33152104, Email: hagh@iasbs.ac.ir

Prof. Norbert Langer, (*internship supervisor*), Professor of physics, The Argelander-Institut für Astronomie (AlfA), Bonn, Germany.

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