

Curriculum Vitae

Personal Data:

Surname	Ghaffari
Name	Zohreh
Date of Birth	18. April 1985
Nationality	Iran
Email	ghaffari@astro.ruhr-uni-bochum.de

Languages:

- English fluent
- German B1

IT-knowledge:

- *Astronomical software & Codes:* IRAF, HIPE, EAZY, Lephare, galfit, Swarp, Image reduction, SExtractor, Scamp
- *Operating system:* Linux
- *Office:* Latex, PowerPoint, Word, Excel
- *Programming:* IDL, Python, C++, Fortran90

Education:

- PhD student of Astrophysics, Astronomisches Institut, Ruhr-Universität-Bochum¹, Germany, July 2016 - July 2020
- Master of Science: Graduated in Physics at IASBS², Iran, 2009 - 2011
- Bachelor of Science: Graduated in Physics at Shiraz University³, Iran, 2004 – 2008

1- <https://www.ruhr-uni-bochum.de>

2- <http://www.iasbs.ac.ir>

3- <http://www.shirazu.ac.ir>

Observational experience

2018: Magellan (6.5 m) Telescope, Chile, June 18-20

Instrument: PISCO

Program title: Galaxy cluster at $z > 1.3$

P. I.: S. P. Willner

Col: M. L. Ashby (CFA), **Z. Ghaffari** (U. Bochum), M. Haas (U. Bochum)

2017-2018: IRIS (0.8 m) Telescope, Bochum observatory, Cerro Armazones, Chile

Instrument: various

Program title: Optical and IR reverberation mapping of AGN

2017: DCT (4 m) Telescope, Lowell Observatory, USA

Instrument: ????

Program title: Ten Billion Years of Brightest Cluster Galaxies Alignments

P. I.: M. J. West

Col: S. P. Willner (CFA), **Z. Ghaffari** (U. Bochum), M. Haas (U. Bochum)

Publications:

Clustering of red and blue galaxies around high-redshift 3C radio galaxies with Spitzer and the Magellan 6.5 m telescope.

Zohreh Ghaffari, et. al

MS, in Prep. 2021

Clustering of red and blue galaxies around high-redshift 3C radio sources as seen by the Hubble Space Telescope

Zohreh Ghaffari , Martin Haas , Marco Chiaberge , S. P. Willner , Rolf Chini, Hendrik Hildebrandt, Michael West , and Roberto de Propris ,

A&A submitted

Galaxy overdensities around 3C radio galaxies and quasars at $1 < z < 2.5$ revealed by Spitzer 3.6/4.5 μm and Pan-STARRS

Ghaffari, Z.; Westhues, Ch.; Haas, M.; Chini, R.; Willner, S. P.; Ashby, M. L. N.; Wilkes, B. J.

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Conferences/Workshops/Meetings:

- 2020: "Science with the Hubble and James Webb Space Telescopes VI" masterclass Workshop
2-8 April, remote, via zoom, Stockholm
- 2020: *"The Science Cloud – Towards a Research Data Ecosystem for the next Generation of Data Intensive Experiments and Observatories"*,
12 - 15 Jan, Bonn, Germany
A new multi-band optical image pipeline for the Magellan 6.5 m telescope (poster & talk)
- 2019: *"Supermassive Black Holes: Environment and Evolution"*,
19 - 22 June, Corfu, Greece
Evolution of galaxy overdensities around 3C radio galaxies at $z > 1$ using HST (talk)
- 2017: *"The many Scales of the Universe: Galaxies, their Suns, and their Planets"*
18 - 22 Sept, Göttingen, Germany
Galaxy overdensities around 3C radio galaxies and quasars at $1 < z < 2.5$ revealed by Spitzer 3.6/4.5 μm and Pan-STARRS (talk)
- 2016: *"The Many Facets of Astrophysics - Photons, Particles, and Spacetime"*,
12 -16 Sept, Bochum, Germany
- 2016: *"The 19th Meeting on Research in Astronomy"*,
12 - 13 May, IASBS University, Zanjan, Iran
The results on the galaxy cluster surrounding the high-excitation radio galaxy (HERG) 3C 6.1 at $z=0.84$ (talk)
- 2012: *"The 16th Meeting on Research in Astronomy"*,
10 - 11 May, IASBS University, Zanjan, Iran
Metallicity of Starburst Galaxies in Chandra Deep Field South (CDF-S) at $0.5 < z < 1.0$ (poster & talk)
- 2011: *"Early Universe and Cosmology seminar"*,
23 - 24 May, IPM, Tehran, Iran
- 2011: *"Advanced Research school and workshop on Astronomy and Astrophysics"*,
August 23 - 28, Maraghe, Iran
- 2009: *"National Conference of Gravity and Cosmology"*,
19 - 23 April, Shiraz University, Iran
- 2010: *"The 14th Meeting on Research in Astronomy"*,
13 - 14 May, IASBS University, Zanjan, Iran
- 2009: *"The third International Olympiad on Astronomy and Astrophysics"*,
17 - 26 Oct, Tehran, Iran, as a corrector and adjudicator
- 2009: *"International Astronomy Before and After Galileo"*,
29 - 30 Jan, IASBS university, Zanjan, Iran
- 2009: *"The 13th Meeting on Research in Astronomy"*, IASBS university,
27 - 28 Jan, Zanjan, Iran

Academic Referees:

Prof. Dr. Rolf Chini chini@astro.ruhr-uni-bochum.de

Priv. Doz. Dr. Martin Haas haas@astro.ruhr-uni-bochum.de

Work experiences and skills:

2016 - 2020: Focus on Galaxy Clusters at high redshift

Various observing procedures, image reduction (multi mosaic),
astrometry, photometry, SExtractor, making and matching catalogs, redshift
measurement.

2014 - 2016: Teaching basic physics (Halliday) and Lab courses

2012 - 2014: Teaching basic physics (Halliday), Electromagnetism