

CURRICULUM VITAE

Teymoor Saifollahi

EU Marie Curie PhD student
Kapteyn Astronomical Institute
Landleven 12, 9747 AD
Groningen, The Netherlands

Email: saifollahi@astro.rug.nl
Web: <http://teymoorsaifollahi.com>
Github: <https://github.com/teymursaif/>
ORCID: 0000-0002-9554-7660

Education

- **PhD in Astronomy** (*expected date: August 2021*)
Kapteyn Astronomical Institute, University of Groningen (RuG), the Netherlands
Dissertation: Understanding the evolution of dwarf galaxies in galaxy clusters
Advisor: Prof. R.F. Peletier, E.A. Valentijn, J.H. Knapen
- **MSc in Astronomy and Physics** (*May 2017*)
Amirkabir University of Technology, Tehran, Iran
Dissertation: Luminosity function of the fossil galaxy groups
Advisor: Habib Khosroshahi, Davoud Kamani
- **BSc in Mechanical Engineering** (*May 2014*)
KNT University of Technology, Tehran, Iran
Dissertation: Astrophysical fluid dynamics
Advisor: Ali Ashrafi (*admitted as exceptional Talent*)

Awards and Honors

- EU Marie Curie early stage researcher (ESR), SUNDUAL-ITN (2017-present)
- Leids Kerkhoven-Bosscha Fonds (LKBF, 600 euro) to attend the general assembly of IAU in Vienna (2018)
- Maria Sibylla Merian scholarship (2000 euro) to visit Kapteyn Astronomical Institute for 2 months (2017)
- Ranked member of **Iran National Foundation of Elites**
- Awarded **Silver medal** in 3rd National Olympiad on Astronomy and Astrophysics in Iran (2007)

Research Interests

- Formation and evolution of dwarf galaxies; Dark Matter; Massive Black Holes; Globular clusters;
- Observational techniques; Astronomical Surveys; AI and data mining in Astronomy

Research and work Experience

- **PhD researcher** (*September 2017 - August 2021*)
Kapteyn Astronomical Institute, University of Groningen (RuG), the Netherlands
- **Visitor** (*September 2019 - November 2019*)
Instituto de Astrofísica de Canarias, Canary islands, Tenerife
- **Visiting student** (*March 2017 - May 2017*)
Kapteyn Astronomical Institute, University of Groningen, the Netherlands
- **Research Assistant** (*September 2015 - March 2017*)
School of Astronomy, Institute for Research in Fundamental Sciences (IPM)
- **Astronomical instruments developer** (*2011-2013*)
Technical Development Division (TDD), Institute for Research in Fundamental Sciences (IPM)
- **Visiting student** (*2010-2011*)
Site selection and site monitoring project, Iranian National Observatory (INO)

Talks and seminars

- EUCLID-NL science day, Kapteyn Astronomical Institute, Groningen, the Netherlands (February 2021)
- SMUDGFest meeting on ultra-diffuse galaxies, University of Arizona, United states (December 2020)
- Birouni Observatory (*invited*), Shiraz, Iran (November 2020)
- Strasbourg Observatory (*invited*), Strasbourg, France (October 2020)
- School of Astronomy (*invited*), Institute for Research in Fundamental Science (IPM), Tehran, Iran (September 2020)
- Low-surface brightness galaxies meeting, Groningen, the Netherlands (March 2018)
- Fornax Deep Survey (FDS) meeting, Groningen, the Netherlands (September 2017)
- SUNDIAL-ITN annual meetings, various places (2018-2020)

Observing proposal

- *co-I*:Panchromatic view of galaxies across different cluster environments – Near-infrared observations of the in-falling galaxy group around NGC 1316 at the edge of the Fornax cluster: disentangling nature versus nurture, ESO/VISTA/VIRCAM (p102, 2018)

Teaching and Supervision

- La Palma Observing Trip, MSc course, University of Groningen and Isaac Newton Telescope (INT), La Palma, Canary Islands (2018 and 2019)
- Introduction to Astronomy, BSc course, University of Groningen (2018 and 2019)
- Supervision and co-supervision of 3 MSc and 1 BSc projects in Astronomy and Computer Science, University of Groningen

Outreach and Education

- "Donkere materie in ultra-diffuse sterrenstelsels" (Dark matter in ultra-diffuse galaxies), an article written for ZENIT, the Dutch astronomy magazine (January 2021).
- Press releases and interviews around the recent findings on the ultra-diffuse galaxy Dragonfly 44 (DF44) in [Dutch](#), [English](#) and [Spanish](#)
- Contribution to "Space-fluff", a Zooniverse citizen science project to identify and classify the dwarf and low-surface brightness galaxies
- Popularizing astronomy activities in Groningen including International Asteroid days Pub Quiz, University of Groningen open days, national stargazing days (since 2017)
- Popularizing astronomy activities in Tehran (2007-2017)
- Science Writing for Farsi astronomical media (since 2007)

Schools and Training

- NEON observing School, Asiago Observatory, Asiago, Italy (September 2018)
- Lyon 2D-3D spectroscopy school, Lyon, France (July 2018)
- SUNDIAL Schools in Machine learning, mathematical morphology, professional programming, project management, data visualization and version control, various place (2018-2020)
- International school for young astronomers (ISYA), Tehran, Iran (July 2016)
- Advanced course in publishing, Public speech, Dutch language lessons (0-A1 and A1-A2)

Publications

First author

1. "The number of globular clusters around the iconic UDG DF44 is as expected for dwarf galaxies", **T. Saifollahi**, I. Trujillo, M. A. Beasley, R. F. Peletier, and J. H. Knapen, Monthly Notices of the Royal Astronomical Society, [10.1093/mnras/staa3016](https://doi.org/10.1093/mnras/staa3016) (2020).
2. "Ultra-compact dwarfs beyond the centre of the Fornax galaxy cluster: Hints of UCD formation in low-density environments", **T. Saifollahi**, J. Janz, R.F. Peletier, M. Cantiello, M. Hilker, S. Mieske, E.A. Valentijn, A. Venhola, G.A. Verdoes Kleijn, *submitted to* the Monthly Notices of the Royal Astronomical Society ([link to the submitted version](#))
3. (*in preparation*) "Globular clusters around the largest ultra-diffuse galaxies in the Coma cluster", **T. Saifollahi**, D. Zaritsky, R. Donnerstein, R. F. Peletier, I. Trujillo, M. A. Beasley, and J. H. Knapen, *to be submitted to* the Monthly Notices of the Royal Astronomical Society

Co-author

4. "Detection of extragalactic Ultra-Compact Dwarfs and Globular Clusters using Explainable AI techniques", M. Mohammadi, J. Mutatiina, **T. Saifollahi**, K. Bunte, *submitted to* the Journal of Astronomy and Computing ([link to the submitted version](#))

References

Prof. Reynier Peletier
Kapteyn Astronomical Institute
Landleven 12, 9747 AD
Groningen, the Netherlands
peletier@astro.rug.nl

Prof. Johan Knapen
Instituto de Astrofísica de Canarias
E-38205 La Laguna
Tenerife, Spain
johan.knapen@iac.es

Dr. Ignacio Trujillo
Instituto de Astrofísica de Canarias
E-38205 La Laguna
Tenerife, Spain
trujillo@iac.es