

# Curriculum Vitae

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Name	<b>Razieh Ranjbar</b>
Contact Information	Department of Physics School of Science, Ferdowsi University of Mashhad, Iran Email: razieh.ranjbar@mail.um.ac.ir Mobile: +989153708828 Skype name : razie.rt
Date of birth	• 3rd March 1991,
Nationality	• Iranian
Languages	• Persian (native), English (good)
Research Interests	<b>Theoretical and computational astrophysics</b> <ul style="list-style-type: none"><li>• Dynamics and evolution of Accretion flows</li><li>• General Relativity Magnetohydrodynamics of astrophysical systems</li><li>• Astrophysics of compact object</li></ul>
Present Employment	<b>Department of Physics,</b> <ul style="list-style-type: none"><li>• Ferdowsi University of Mashhad, Iran</li><li>• Graduated Phd student.</li></ul>

## Education

### **Ferdowsi University of Mashhad, Iran**

- Ph.D. Astrophysics, September 2018 - September 2023,
- Dissertation Topic: Slowly rotating accretion flow around the supermassive black hole in the presence of outflow.
- Supervisor: Prof. Shahram Abbassi

### **Ferdowsi University of Mashhad, Iran**

- Master of Science with Astrophysics, September 2014 - August 2017,
- Dissertation Topic: Accretion disks in Post-Newtonian approximation.
- Supervisor: Prof. Mahmood Roshan and Prof. Shahram Abbassi

### **Hakim University of Sabzevar, Iran**

- Bachelor of Science with Physics, September 2009 - June 2013.

## Passed Courses

### **M.Sc.**

- General Relativity,
- Introductory Astrophysics,
- Fluid Dynamics,

### **Ph.D**

- Cosmology,
- Advanced Astrophysics - I
- Advanced Astrophysics - II
- Special topics in astrophysics

## Teaching Experiences

### **B.S.**

(2018 - present)

- Introductory Physics 1 & 2, (Classical Mechanics, Electricity and Magnetism),
- Laboratory of Physics 1 & 2, (Fundamental Physics),
- Introductory Astronomy, 2018

## Computer Skills

- Operating Systems: Proficient in Linux and Windows.
- Typesetting: LaTeX
- Software: Mathematica, Maple
- Programming: MATLAB (expert), Python (in progress), Fortran (basic)
- High-Performance Computing: Experience working with HPC resources (basic). Sciclustar (Mini cluster) at Ferdowsi University of Mashhad, Iran.
- GRMHD Codes: Currently working on the BHAC code (in progress)

## Publication lists

1. [Ranjbar, R.](#), & Abbassi, S. (2023), Slowly Rotating Accretion Flow Around SMBH in Elliptical Galaxy: Case With Outflow. The Astrophysical Journal, arXiv preprint arXiv:2306.12990.
2. [Ranjbar, R.](#), Mosallanezhad, A., & Abbassi, S. (2022). Global structure and dynamics of slowly rotating accretion flows. Monthly Notices of the Royal Astronomical Society, 516(3), 3984-3994.
3. [Ranjbar, R.](#), Roshan, M. & Abbassi, S. H. (2019). A simple model for accretion disks in the post-Newtonian approximation. Iranian Journal of Physics Research, 19(2), 273-283.

## Fellowship and Visiting program

- 1- Visiting Anton Pannekoek Institute in Amsterdam University, Netherlands, April 2023.
- 2- Visiting Radboud University in Nijmegen, Netherlands, May 2023.

## Workshop and Conferences

- 1- Participation in Online Crash Course on Numerical Astrophysics, Mashhad, Iran, February, 27<sup>th</sup> to 31<sup>th</sup> July 2020.
- 2- Participation in Online Course on galactic dynamics, Mashhad, Iran, February, 2020.
- 3- Participation in 11<sup>th</sup> National Meeting of Astronomy and Astrophysics of Iran, Mashhad, Iran, February, 2018.
- 4- Participation in Astronomy teacher training course, Mashhad, Iran, 2016.
- 5- Participation in Advanced International Summer School on Astrophysics, Tabriz, Iran, 2-3 September 2015.
- 6- Participation in Education school on Physics, Zanjan, Iran, March, 2013.
- 7- Participation in Astronomy introductory training course, Research institute for Astronomy, Maragheh, Iran, August 2010.
- 8- Participation in Advanced Astronomy training course, Research institute for Astronomy, Maragheh, Iran, August 2011.

## Hobbies & Interests

Listening to music, Drawing, Movies and theaters, Hiking, Swimming, History and philosophy.