



# Reza Monadi

## Personal Data

Full name Reza Monadi  
Birth date 31/7/1987  
Nationality Iranian  
Gender Male  
Marital Status Married

## Education

2010-2013 **M.Sc. in Astrophysics**, *Shahid Beheshti University*, Tehran, GPA: 16.07/20 = 3.21/4.  
2005-2009 **B.Sc. in Solid State Physics**, *University Of Guilan*, Rasht, GPA: 15.58/20 = 3.16/4.

## Masters Thesis

Title *Glitch In Pulsars*  
Supervisor Dr. Seyed Mohammad Sadegh Movahed

## Fields of Interest

- Pulsars
- Radio Astronomy
- Data Analysis

## Publications

- 2016 Statistical Analysis of I Stokes Parameter of Millisecond Pulsars, *arXiv:1604.00372*
- 2016 A Gaussian Model for Anisotropic Strange Quark Stars, *Chinese Physics Letters*, 2016
- 2012 Statistical Properties of Glitch in Pulsars, 16<sup>th</sup> meeting on research in Astronomy at IASBS, Zanjan.
- 2009 Determining Longitude and Latitude of an Observer by measuring Altitude and Azimuth of Sun, 14<sup>th</sup> Annual Physics Conference of Iran, Esfahan.

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## Teaching Experiences

Advisor	Masters thesis in Quantum physics, University of Guilan, Supervisor: Dr. H. Panahi, 2014-2016
T.A.	Advanced Quantum Mechanics (II), University of Guilan , 2013
Lab Assistant	Fundamental Physics (II) Lab., University of Guilan, 2015-present
Supervisor	High school computational physics project, Mirza Kouchak Gifted Students' High School, 2016
Teacher	Astronomy, Thaqib Astronomical Association, 2013-present
Teacher	Introduction to Astronomy, Mirza Kouchak Gifted Students' High School, 2015 - present

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## Computer Skills

Operating Systems	Linux, Microsoft Windows
Softwares	MATLAB, Maple, Microsoft Office, LaTeX, Visual Studio
Prog. Language	Fortran
Packages	openMP, psrchive
Familiar with	C, C++, Python

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## Relevant Advanced Courses

- Computational Physics
- Physics of Complex systems
- Cosmology
- Gravitation

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## Languages

Persian	<b>Native</b>
English	<b>Fluent</b>
Arabic	<b>Beginner</b>

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## Workshops and Conferences

- 16<sup>th</sup> meeting on research in Astronomy at IASBS, Zanzan, 2012
- Astronomy and Astrophysics conference, Damghan University of Science, Damghan, Iran, 2012
- 2<sup>nd</sup> Optical Data Reduction Workshop, IPM, SoA, 7th – 9th February 2012, Tehran, IRAN
- First conference in Light pollution and side effects, Qom, Iran, 2009

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## Team Work experiences

- Amateur Radio Astronomy: Radio Observations of Sun and Meteor showers
- Construction of A Solar dish
- Construction of a Helmholtz Coil

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## Selected Oral Presentations

Public	What is a Pulsar?
Public	Cosmic Microwave Background Radiation
Public	Big-Bang: Problems and Solutions
Academic	Lyman Alpha Forests
Accademic	Applications of Self-Organization Criticality in Astrophysics

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## Honors

- Top 2% of Ph.D. applicants of physics in Iran (2013)
- Top 1% of M.Sc. applicants of physics in Iran (2010)

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## Interests and Hobbies

Bike Riding	Naser-Khosro Cyclists' Group
Mountaineering	Tilar Group
Swimming	In the lovely Caspian Sea

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## References

- Dr. Mohammad Sadegh Movahed    **Associated Prof. of Shahid Beheshti University, Resident researcher in school of Astronomy (IPM).**  
"E-mail: [m.s.movahed@ipm.ir](mailto:m.s.movahed@ipm.ir)"  
*He was my M.Sc. thesis supervisor and also taught me "Computational Physics".*
- Dr. Hamid Rahimpour Soleimani    **Associated Prof. of University of Guilan**  
"E-mail: [rahimpour@guilan.ac.ir](mailto:rahimpour@guilan.ac.ir)"  
*He was my bachelor course supervisor and taught me "Fundamental Physics I, Fundamental Physics II, and Quantum mechanics I."*
- Dr. Hossein Panahi Talemi    **Associated Prof. of Guilan University.**  
"E-mail: [t-panahi@guilan.ac.ir](mailto:t-panahi@guilan.ac.ir)"  
*He supervised us in our research papers.*