

Curriculum Vitae of Marziyeh Peyravi

Personal Information:

Gender: Female

Date of Birth: 3th March 1982

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Education:

Ph.D. in Astronomy and Astrophysics:	Ferdowsi University of Mashhad, Mashhad, Iran (18.25/20, TOP STUDENT) Supervisor: Prof. N. Riazi and Dr. Sh. Abbassi	Sep. 2012-May. 2017
Ph.D. Research Visitor:	University of Lisbon Lisbon, Portugal Supervisor: Prof. F. S. N. Lobo	Nov. 2015-Jun. 2016
M. Sc. in Theoretical Physics:	Shiraz University, Shiraz, Iran. (16.17/20) Supervisor: Prof. N. Riazi	Feb. 2005- Nov. 2007
B. Sc. in Physics:	Azad University, Arsanjan, Iran	Sep. 2000- Jul. 2004

(16.93/20)

Research Experiences:

PhD Thesis

Solitons in Cosmology (19.75/20)

Supervisor: Prof. N. Riazi and Dr. Sh. Abbassi

Master Thesis

Study of the Localized Static and Periodic Solutions of the Double-Sine-Gordon Equation (19/20)

Supervisor: Prof. N. Riazi

**Computational
Physics Project**

Chaotic Behavior of the Nonlinear/Forced Pendulum

Supervised by: ***Prof. N. Riazi and Dr. A. Azizi***

Teaching Experiences:

	From	to	
• Shiraz University	Sep/2006	Jan/2008	Lab. Assistant (General Physics I)
• Shiraz University	Sep/2007	Jun/2008	Physics Tutor (General Physics)
• Shiraz University of Medical Sciences	Sep/2010	Jan/2011	Teacher Assistant (Medical Physics)
• Azad University, Shiraz Branch, Sama	Sep/2008	Jun/2012	Teacher (General Physics)
• Apadana Higher Education Institute	Jan/2012	Jun/2012	Teacher (General Physics)
• Ferdwosi University	Sep/2014	Jan/2015	Teacher (General Physics) of Mashhad
• Ferdwosi University of Mashhad	Jan/2015	Jun/2015	Teacher Assistant (Analytical Mechanics)
• Technical and Vocational University	Sep/2016	Teacher (Basic Physics)
• Jahrom University	Jan/2018	Jun/2018	Teacher (Physics 3)

- Jahrom University Jan/2018 Jun/2018 Teacher (Astronomy and Astrophysics)
- Jahrom University Jan/2018 Jun/2018 Teacher (Technical Language)
- Jahrom University Jan/2018 Jun/2018 Teacher (Lab General Physics II)
- Jahrom University Sep/2018 Jan/2019 Teacher (Physics I)
- Jahrom University Jan/2018 Jan/2019 Teacher (Lab General Physics I)
- Jahrom University Sep/2018 Jan/2019 Teacher (Analytical Mechanics II)
- Jahrom University Sep/2018 Jan/2019 Teacher (Mathematical Methods for Physicists I)
- Jahrom University Jan/2019 Jun/2019 Teacher (Physics II)
- Jahrom University Jan/2019 Jun/2019 Teacher (Lab General Physics II)
- Jahrom University Jan/2019 Jun/2019 Teacher (Astronomy and Astrophysics)
- Farhangian University Jan/2019 Jun/2019 Teacher (Basic Sciences)
- Jahrom University Sep/2019 Jan/2020 Teacher (Mathematical Methods for Physicists III)
- Jahrom University Sep/2019 Jan/2020 Teacher (Mathematical Methods for Physicists I)
- Jahrom University Sep/2019 Jan/2020 Teacher (Lab General Physics III)
- Jahrom University Jan/2020 Jun/2020 Teacher (Mathematical Methods for Physicists II)
- Jahrom University Jan/2020 Jun/2020 Teacher (Thermodynamics and statistical Mechanics II)
- Jahrom University Jan/2020 Jun/2020 Teacher (Biophysics)
- Jahrom University Jan/2020 Jun/2020 Teacher (Astronomy and Astrophysics)
- Jahrom University Sep/2020 Jan/2021 Teacher (Analytical Mechanics I)
- Jahrom University Sep/2020 Jan/2021 Teacher (Lab General Physics III)
- Jahrom University Sep/2020 Jan/2021 Teacher (Physics I)
- Jahrom University Jan/2021 Teacher (Astronomy and Astrophysics)
- Jahrom University Jan/2021 Teacher (Physics III)
- Jahrom University Jan/2021 Teacher (Electromagnetism)

Holded Workshop:

- Workshop on introductory **Maple** (Jahrom University, Jahrom, Iran) 5 March 2019
- Workshop on advanced **Maple** (Jahrom University, Jahrom, Iran) 21 Oct 2019

Invited Talk:

- **What is Physics?** (Shiraz University of Technology, Shiraz, Iran) 19 December 2018 *The annual Physics Day*

Publications:

- “*Interaction Properties of the Periodic and Step-like Solutions of the Double-sine-Gordon Equation*”. **M. Peyravi**, A. Montakhab, N. Riazi et al (2009, **Eur. Phys. J. B** **72**, 269)
- “*Static Properties of the Multiple-Sine-Gordon Systems*”. **M. Peyravi**, N. Riazi and A. Montakhab (2010, **Eur. Phys. J. B** **76**, 547)
- “*Families of Stable and Metastable Solitons in Coupled System of Scalar Fields*”. N. Riazi and **M. Peyravi** (2012, **IJMPA**, **27**, No. **2**, 1250006)
- “*Double Field Domain Walls with Explicit Symmetry Breaking*”. N. Riazi, **M. Peyravi** and Sh. Abbassi (2015, **CJP**, **53**, No. **5**, 100903)
- “*Soliton Models for Thick Branes*”. **M. Peyravi**, N. Riazi and F. S. N. Lobo (2016, **Eur. Phys. J. C** **76**, 247)
- “*Thick Brane Solitons Breaking Z2 Symmetry*”. **M. Peyravi**, N. Riazi, and F. S. N. Lobo (2015, contribution to the proceedings of the "The Fourteenth Marcel Grossmann Meeting on General Relativity", University of Rome "La Sapienza", Rome, July 12-18, 2015, based on a talk delivered at the AT2-Alternative Theories parallel session, https://doi.org/10.1142/9789813226609_0111)
- “*Evolution of spherical domain walls in solitonic symmetron models*”. **M. Peyravi**, N. Riazi and F. S. N. Lobo (2017, **PRD** **95**, 064047)
- “*Novel thick brane solutions with U(1) symmetry breaking*”. **M. Peyravi**, N. Riazi and F. S. N. Lobo (2020, **submitted to PRD**)

- “*Hydrodynamic Description of Sine-Gordon Solitons*”. N. Riazi, and **M. Peyravi** (2020, **submitted to JNLS**)

Poster Presentation:

- 16th Annual Spring Conference of IPM (IPM, Tehran, Iran) 20-21 May 2009, Poster presentation, “*Solitons Interaction in the Solutions of the Double-Sine-Gordon Equation*”, **M. Peyravi**, N. Riazi and A. Montakhab
- 1st summer school on interdisciplinary Sciences (Shiraz University, Shiraz, Iran) 8-11 September 2007, Poster presentation, “*The Anticipation of the DNA Molecule Behaviour with Springs and Pendulums*”, **M. Peyravi**
- The Annual Physics Conference of Iran (Yasooj University, Yasooj, Iran) 27-30 August 2007, Poster presentation, “*Periodic and Step-like Solutions of the Double-Sine-Gordon Equation*”, **M. Peyravi** and N. Riazi

Workshops and Schools:

- **Advanced fMRI Data Analysis Workshop** (Shiraz University, Shiraz, Iran) 18-19 April 2019
- **Development of Structural and Functional Neuroimaging Analysis Method Symposium (Clinical and research Application)** (Shiraz University, Shiraz, Iran) 17 April 2019
- Tehran school on **Theory and Applications of Complex Networks** (Shahid Beheshti University, Tehran, Iran) 25-29 August 2018
- Workshop on **Computational Neuroscience** (Shiraz University, Shiraz, Iran) 4-5 February 2015
- International Workshop on **Galaxies Inside and Out** (School of Astronomy, Institute for Research in Fundamental Sciences, Tehran, Iran) 25-28 January 2015
- School on **Gravity and Cosmology** (Shahid Beheshti University, Tehran, Iran) 19-20 November 2014
- Summer School on **Linux and shell scripting for Astronomers** (School of Astronomy, Institute for Research in Fundamental Sciences, Tehran, Iran) August 2013
- 2nd summer school on **interdisciplinary Sciences** (Shiraz University, Shiraz, Iran) 21-24 September 2009
- 1st summer school on **interdisciplinary Sciences** (Shiraz University, Shiraz, Iran) 8-11 September 2007

- Workshop on Introducing **Maple and GR-Tensor** (Shiraz University, Shiraz, Iran) 1 November 2007

International /National Conferences:

- The First Regional Conference on the Role of Basic Science in Higher Education (Fasa University, Fasa, Iran) 04 July 2018
- 9th Conference on Statistical Physics, Soft Condensed Matter and Complex Systems (Shiraz University, Shiraz, Iran) 05 January 2017
- Euclid Consortium Meeting (Centro Cultural de Belém, Lisbon, Portugal) 30 May - 03 June 2016
- GR 100 years in Lisbon (IST, Lisbon, Portugal) 18-19 December 2015
- National Conference on Gravitation and Cosmology (Sharif University of Technology, Tehran, Iran) 21-22 January 2015
- 17th Meeting on Research in Astronomy at IASBS (Institute for Advanced Studies in Basic Sciences(IASBS), Zanjan, Iran) 16-17 May 2013
- 6th National Meeting of Astronomy & Astrophysics of Iran (University of Birjand, Birjand, Iran) 24-25 January 2013
- Interdisciplinary Conference on Matter, Life and Mind (Shiraz University, Shiraz, Iran) 17 December 2009
- 12th Iranian Conference on Optics and photonics (Shiraz University, Shiraz, Iran) 2005

Invited Referee For Following Journal:

- Iranian Journal of Astronomy and Astrophysics (**IJAA**)

Membership in Scientific Bodies:

- Assistant Editor of **Iranian Journal of Astronomy and Astrophysics (IJAA)**
- Astronomical Society of Iran

Awards and Honors:

- Acknowledgement from the head of Jahrom University as a high rank lecturer.
- Acknowledgement from head of University as a top student during bachelor studies.
- Acknowledgement from head of Iran Astronomical Society of Iran because of working in Iranian Journal of Astronomy and Astrophysics as an Assistant Editor.
- A high rank lecturer among PhD student who works as a lecturer during PhD.
- Top student during PhD.

Fields of Interest:

- **Cosmology**
- **Astrobiology**
- **Nonlinear systems**
 - Chaotic Dynamics
 - Soliton Theory
- **Complex Systems and Biophysics**
 - Protein Folding
 - Nonlinear Physic of
DNA
 - Neuroscience

Computers Skills:

- **Programming languages:** Maple, Matlab
- **Mathematics Soft wares:** Maple, Matlab, Origin, Tecplot, Python
- **Word processors:** Latex, Word
- **Power point**

Languages skills:

- Persian Native
- English IELTS score 6

Hobbies:

- Painting
- Swimming
- Reading philosophical and psychological books

References:

Prof. Nematollah Riazi:

Professor of Physics, Physics department, Shahid Beheshti University, Tehran 19839, Iran
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Prof. Francisco S. N. Lobo:

Professor of Physics, Instituto de Astrofisica e Ciencias do Espaco, Centro de Astronomia e Astrofisica da Universidade de Lisboa (CAAUL), Campo Grande, Ed. C8, 1749-016, Lisboa, Portugal
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