

Marjan Yousefzadeh Shabestari

INFORMATION

Contact Information

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EDUCATION

University of Zanjan, Zanjan, Iran
M.Sc. in Astrophysics

2012-2014

- MSc thesis title: "Reconstruction of Magnetic Field of Solar Corona"
Supervisors: Prof. Sadollah Nasiri Gheydari, Dr. Hossein Safari

Payame Noor University, Tehran, Iran
B.Sc. in Solid State Physics

2005-2010

- BSc thesis title: "Application of Carbonic Nanotubes"
Supervisor: Dr. Yaser Kasesaz

INTEREST

- Solar and stellar magnetic activities (observation and simulation)
- Solar astrophysics (the physics of events at the Sun)
- Molecular Diagnostics of Solar and Stellar Magnetic Fields
- Exoplanets

PUBLICATION

- "*Reconstruction of Solar Coronal Linear Force-Free Magnetic Field*", Marjan Yousefzadeh, Sadollah Nasiri, Hossien Safari, Iranian Journal of Astronomy and Astrophysics, 2015
- "*Reconstruction of Magnetic Field of Solar Corona with Nonlinear Method*", M. Yousefzadeh, S.Nasiri Gheydari, H.Safari, 8th National Astrophysics Conference, AmirKabir University of Technology, Tehran, Iran, 2015
- "*Reconstruction of Magnetic Field of Solar Corona with Optimization Method*", M. Yousefzadeh, S.Nasiri Gheydari, H.Safari, 7th National astrophysics conference, Shahid Bahonar University of Kerman, Kerman, Iran, 2014
- "*Golden Sequence*", M. Yousefzadeh, Danesh-o-Mardom Magazine, 9th year, Vol 86 & 87, 2008
- "*A Set of Questions (in Number Theory)*", M. Yousefzadeh, 38th Conference of Mathematics, University of Zanjan, Iran, 2007
- "*Goldbach Conjecture*", M. Yousefzadeh, 38th Conference of Mathematics, University of Zanjan, Iran, 2007
- "*Einstein's Puzzle*", M. Yousefzadeh, Danesh-o-Mardom Magazine, 8th year, Vol 78 & 79, 2007
- "*Consideration of Goldbach Conjecture*", M. Yousefzadeh, Danesh-o-Mardom Magazine, 8th year, 80, 2007

EMPLOYMENT

- Working as a Researcher in Sayeh Research Institute, 2016
- Working as a Director of Public Relations in the NightSky Institute, March 2016
- Service manager in Amouj Farayand Commercial Company for limited time
- A member of executive committee of the "Sewage and Water project" that has been conducted with the corporation of the World Bank in Shahid Abbaspour Power and Water University of Technology for eight months, Tehran, Iran, 2008

- ACTIVITIES
- Working as a coordinator and researcher in Diabetes & Metabolic Disorders Specialty Clinic, 2016
 - Planetarium operator in the NightSky Institute, 2016
 - Representative of the NightSky Institute in the 29th Tehran International Book Fair, 2016
 - Practical experience in instrumental and observational astronomy including working with telescopes
- HONORS
- Earned 64 (out of 100) in Mathematics & Informatics Olympiad, Tehran, Iran, 2001
 - Ranked as the top student in third semester among 12 students in the master program in Astrophysics, University of Zanjan, Iran
- TALK
- *“the Sun”*, 159th Tousi Astronomy Club, Mashhad, Iran, 2016
 - *“Reconstruction of Magnetic Field of Solar Corona with Nonlinear Method”*, 8th National Astrophysics Conference, AmirKabir University of Technology, Tehran, Iran, 2015
- TEACHING EXPERIENCE
- 2011-2012: Instructor for “Fundamental of Physics”, “Differential Equations”, and “General Mathematics” in Ostade Bartar Institute. Tehran, Iran
 - 2005-2013: Tutor for high school physics courses
- COURSEWORK
- Taking the PhD course “The physics of the sun” at the third semester and doing a research project on “The Process of Formation and Interaction at the Inside and the Outside of the Sun and its other Atmospheric Phenomena”
 - Taking the course “Special Objects” and carrying out a research project on “Study and Consideration of Problems in Relation to Stars such as Formation and Classifications”
 - Taking the course “Numerical Calculation” and hands-on experience in programming in varieties of questions with C++
 - Taking the course “Statistical Mechanics” and solving application-oriented applicable problems in statistical mechanics and analyzing them
- CONFERENCE AND SEMINAR
- “8th Annual Iranian Conference on Astronomy and Astrophysics”, AmirKabir University of Technology, Tehran, Iran. 2015
 - “7th Annual Iranian Conference on Astronomy and Astrophysics”, Shahid Bahonar University of Kerman, Kerman, Iran. 2014
 - “38th Annual Iranian Conference on Mathematical”, Zanjan, Iran, 2007
 - Weekly seminars at the University of Zanjan, Iran
 - Weekly seminars at the Institute for Research in Fundamental Sciences (IPM)
- TECHNICAL SKILLS
- **Operating Systems:** Windows, Linux, Mac OSX
 - **Software and Programming Languages:** Solar soft (SSW), Spline Code, Ashwanden Code (tracing coronal loops), FFF (force free field) extrapolation code, Matlab, IDL, Java, L^AT_EX
 - **Astronomical:** Starry Night, The Sky, Celestia, Stellarium, Nightshade (related to the planetarium), Moon Calculator, Planetary-Lunar and Stellar Visibility
 - **Mathematical:** Mathematica, Maple, Origin Pro
 - **Tools:** Microsoft Office (Word, Excel, PowerPoint), MS Project software

WORKSHOP AND
SCHOOL

- The International School for Young Astronomers (ISYA2016), Held in School of Astronomy, Institute for Research in Fundamental Science (IPM), Tehran, Iran, 21 August-8 September 2016
- “Quantitative Spectroscopy in Astrophysics” summer school, Leibnitz Institute for Astrophysics Potsdam (AIP), Potsdam, Germany, 2016
- “IDL in Astronomy: Techniques and Application” held at the school of astronomy, Institute for Research in Fundamental Science (IPM)
- “The First Theoretical and Practical Course on Ultimate New-Moon Sighting”, Tehran Center of Sciences and Astronomy, Tehran, Iran

LANGUAGE

- Persian: Native
- Azerbaijani: Native
- English: Advanced