

ESFANDIAR JAHANGIRI

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RESEARCH INTERESTS

- Exoplanets, Stellar Evolution, Binary Star Systems, Asteroseismology

EDUCATION

- M.Sc. Applied Mathematics - Operations Research (2013-2015)
 - Azad University, Isfahan, Iran - GPA: 3.50/4.00 (16.34/20)
 - Thesis Title: A Survey of Effective Factors in Premature Convergence in Genetic Algorithm and Strategies to Overcome Them
- B.Sc. of Applied Mathematics (2007-2013)
 - Payame Noor University of Isfahan, Isfahan, Iran

PUBLICATIONS

- Porro, A, **Jahangiri, E.**, Aliakbari, R., Sarvari, E., Ranjbaryan, S., Michel, R., et al. (Feb. 2025). "Study on the Physical Parameters of 18 Contact Binary Stars". In: *Monthly Notices of the Royal Astronomical Society*, staf356. DOI: [10.1093/mnras/staf356](https://doi.org/10.1093/mnras/staf356).
- Porro, A, S. J Jafarzadeh, R Harzandjadidi, M Madani, E Bozorgzadeh, **Jahangiri, E.**, et al. (Feb. 2024). "Period–Luminosity Relationship for δ Scuti Stars Revisited". In: *Research in Astronomy and Astrophysics* 24.2, 025011, p. 025011. DOI: [10.1088/1674-4527/ad1b0f](https://doi.org/10.1088/1674-4527/ad1b0f).
- Porro, A., F. A. Farahani, **Jahangiri, E.**, A. Sarostad, M. Gozarandi, M. Haghgou, et al. (Sept. 2023). "Ephemeris Updates for Seven Selected Hatnet Survey Transiting Exoplanets". In: *Astrophysics* 66.3, pp. 324–343. DOI: [10.1007/s10511-023-09794-y](https://doi.org/10.1007/s10511-023-09794-y).
- Jahangiri, E.**, Gozarandi, M., Dehghani, A., and Porro, A. (Sept. 2022). "Calculating Physical Parameters of Delta Scuti Stars by using Gaia EDR3 Parallax ". In: *RRL-Cep2022 Conference*, La Palma, Spain.
- Porro, Atila, M. G. Blackford, S. Ranjbar Salehian, **Jahangiri, E.**, M. Samiei Dastjerdi, M. Gozarandi, et al. (May 2022). "The First Photometric Study of AH Mic Contact Binary System". In: *Research in Astronomy and Astrophysics* 22.5, 055020, p. 055020. DOI: [10.1088/1674-4527/ac6417](https://doi.org/10.1088/1674-4527/ac6417).

INTERNATIONAL WORKSHOPS AND PRESENTATIONS

- Oral Presentation on "Eclipsing Binary Star Systems" The International Meeting in China (BSN Global Project) (2024)
- Oral Presentation on "Transiting Exoplanets" The Fourteenth Moscow Solar System Symposium (2023)
- Workshop on "Stellar evolution along the HR diagram with Gaia" Italy (2022)
- 8th and 9th Byurakan International Summer School (BISS) Armenia (2022, 2024)

HONORS AND AWARDS

- Grant Recipient, 9th Byurakan International Summer School, Armenia (2024)
- Referee, National Student Observational Competition, Iran (2012-2013)
- Second Place, Fourth National Sufi Observing Competition, Iran (2011)

TEACHING EXPERIENCE

- Astronomy Teacher, Basics and Observational Astronomy, Irsa Observatory, Isfahan, Iran (2020-2023)
- Teaching and Holding Seminars on Observational Astronomy in Akhtar Sepehr Sepahan Astronomy Company and Irsa Observatory (2016-2021)
- Lecturer, Annual Workshops on Crescent Moon for High School Students, Isfahan, Iran (2015-2017)
- Astronomy Teacher, Teaching Life and Death of Stars and Astronomy Basics in Akhtar Sepehr Sepahan Astronomy Company, Isfahan, Iran (2014-Present)
- Teaching Assistant, Teaching General Mathematics and Differential Equations, Problem-solving Sessions and Grading Exams and Assignments, Two Semesters, Azad University, Isfahan (2014)
- Presentation on Meeting on the Evolution of Stars at Payame Noor University, Isfahan, Iran (2013)

SKILLS

- Language Skills
 - Persian - Native
 - English - IELTS Academic Overall: 7 (L 8, W 6.5, S 7, R 6.5) (June 2023)
- Computer Skills
 - Python, PHOEBE, Exofast, Table Curve, AstroImageJ, LaTeX, Microsoft Office

SERVICE ACTIVITIES

- Conducted Astronomical and Scientific tours for Students, Isfahan, Iran (2012-2023)
- Organized Astronomy Day programs for Astronomy enthusiasts, Isfahan, Iran (2014-2022)
- Organizing various astronomical events and activities: Observing and recording Meteor showers, Comets, Occultations, Transits, and Solar and Lunar Eclipses Programs for students (2012-2022)
- Teaching Calculus at a School for Orphans, Isfahan, Iran (2016)
- Co-Chair, Heliad Astronomical Society, Payame Noor University of Isfahan, Iran (2011-2013)
- Calculating the Limiting Magnitude of the night sky in various areas in Iran (2010-2013)