

# Mostafa Yavari

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## Education

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### **Ph.D. Candidate in History of Science** (Astronomy in the Islamic era)

University of Tehran, Institute for the History of Science, Tehran, Iran (October 2022- )

### **Master of Science in History of Science** (Astronomy in the Islamic era)

University of Tehran, Institute for the History of Science, Tehran, Iran (GPA: 18.35/20, September 2018)

Thesis: A Survey of the Ecliptical Planetary Latitude in Ulugh Beg's Zij (Excellent grade 19.5/20)

Under the Supervision of Dr. Hanif Ghalandari

### **Bachelor's Degree in Solid State Physics**

Islamic Azad University, North Tehran Branch, Iran (GPA: 12.36/20, September 2013)

Thesis: Radio Observations of Meteor Showers' Reflection at VLF band (Excellent grade 18/20)

Under the Supervision of Mr. Babak Kabirimanesh

## Areas of Focus

Astronomical Tables, Mathematical Astronomy in the Medieval Islamic World, Astronomical Tables from the Samarkand Observatory and their Relation to Astronomical Models, Ancient Arabic Astronomy, Medieval Astronomical Instruments.

## Publications

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### Articles

“Ptolemy’s Approach to Explain the Movements of the Planets in Latitude and its Physical Explanation”. *Journal for the History of Science*, 17(2), 365-387. Doi: 10.22059/jihs.2020.300697.371551. [in Persian], (2020) with Hanif Ghalandari.

“A Survey of the Arguments for the Mobility of the Earth in Qānūn Nāṣirī”. *Journal for the History of Science*, 16(1), 115-139. Doi: 10.22059/jihs.2019.287641.371511. [in Persian], (2018).

### Encyclopedia Articles

“Cepheus [constellation].” In *Encyclopedia of the World of Islam*, in press.

“Cetus [constellation].” In *Encyclopedia of the World of Islam*, in press.

“Sagittarius [constellation].” In *Encyclopedia of the World of Islam*, in press.

“Centaurus [constellation].” In *Encyclopedia of the World of Islam*, in press.

“Pegasus [constellation].” In *Encyclopedia of the World of Islam*, in press.

“Boötes [constellation].” In *Encyclopedia of the World of Islam*, in press.

“Corvus [constellation].” In *Encyclopedia of the World of Islam*, in press.

“Observatory.” In *The Great Islamic Encyclopedia*, December 2023.

### Book Reviews

“Some points about scientific translation, a review of 50 Ideas You Really Need to Know: Universe.” *Pure & Applied Sciences Quarterly Book Review*, (5 & 6), 147–178. [in Persian], (2016, September 15).

## Conference Presentations

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“Bridging the Gap between Haya and Zij Traditions: Al-Qushji's Commentary and the Creation of Planetary Astronomical Tables in the Ulugh-Beg's Zij”. Presented at the International ‘ALĪ AL-QŪSHJĪ Symposium and Exhibition (On the 550<sup>th</sup> anniversary of his death), Istanbul Medeniyet University, (2024, November 18-20).

“Inaccuracies in Diagrams of Astronomical Manuscripts from the Islamic Era: A Case Study of al-Bīrūnī’s al-Tafhīm li Awā’il Ṣanā’at al-Tanjīm (No. 2132, Tehran Parliament Library)”. Presented at the Transmission of Astronomical diagrams and Astral iconography in Persian, Arabic and Ottoman texts (International Congress), Institut Français d’Études Anatoliennes (IFEA) Istanbul, (2024, June 24-25).

“Effort Astronomical Calculation Without the Need for a New Theory, Ulugh Beg-Qushji’s Geometric Solution for Calculating Planetary Latitude”. Presented at the Channels of Transmission of Astronomical Knowledge in the Ottoman World (14th-18th Centuries) (International Congress), University of Istanbul, (2023, November 21-24).

“The ecliptical planetary latitude models in Almagest and Ulugh-Beg’s astronomical tables”. Presented at the Cosmology and Cosmological Text in Islamic Civilization conference, University of Tehran [in Persian], (2019, August 25).

“Ptolemy’s solution for defining solid orb in ecliptical planetary latitude issue”. Presented at the Third Conference of students of history and philosophy of science, Sharif University of Technology [in Persian], (2019, May 5).

“Ibn al-Haytham’s method for constructing the ecliptical planetary latitude”. Presented at the Second Ibn al-Haytham and light conference, Shahid Bahonar University of Kerman [in Persian], (2019, April 18).

“Evidence of the mobility of the Earth in Qānūn Nāseri treatise”. Presented at the second Conference of Science in Qājār dynasty, University of Tehran [in Persian], (2019, April 30).

“The Sūltanī Kurdish tropical calendar”. Poster article presented at the First Calendars conference for youth Researchers, University of Shahre Rey [in Persian], (2008, May 14).

## Works in Progress

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“Cosmology (in the Islamic world).” In the *Encyclopedia of the World of Islam*.

## Teaching Experience

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**University of Tehran**, January 2016 – July 2016

Teaching assistant: two courses for the Master's students of History of Science

1. A survey of bibliographic sources in the history of science
2. Methodology of research in the history of science

**Islamic Azad University North Tehran Branch**      2012 – 2013

Teaching three courses in Astronomy for bachelor students (extracurricular courses):

1. Preliminary Astronomy
2. Advanced Astronomy
3. History of Astronomy

## Public Engagement

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### Public Speech

“Science Journalism and the History of Science”. Presented at the National Research Institute for Science Policy of Iran, (2019, November 13).

“Mathematical astronomy vs. Physical astronomy”. Presented at the Tehran Astronomy Club, Astronomical Society of Iran, (2019, January 16).

“Where do we know one night is longer than the other nights?” Presented at the Astronomy Club of Sciences & Astronomy Center, Sciences & Astronomy Center of Tehran, (2019, January 5).

“Review of astronomical books before Copernicus (1)”. Presented at the Astronomy Club of Sciences & Astronomy Center, Sciences & Astronomy Center of Tehran, (2017, October 25).

“Review of astronomical books before Copernicus (2)”. Presented at the Astronomy Club of Sciences & Astronomy Center, Sciences & Astronomy Center of Tehran, (2017, November 22).

“A review of the writing of educational scientific books in history”. Presented at the Astronomy Club of Sciences & Astronomy Center, Sciences & Astronomy Center of Tehran, (2016, April 20).

“How to calculate astronomical parameters in the history of science”. Presented at the Astronomy Club of Sciences & Astronomy Center, Sciences & Astronomy Center of Tehran, (2016, January 27).

“Science: from heaven to ground, a story of the Lightning rod”. Presented at the Astronomy Club of Sciences & Astronomy Center, Sciences & Astronomy Center of Tehran, (2014, April 16).

“Review of trepidation by Muslim scholars”. Presented at the Tehran Astronomy Club, Astronomical Society of Iran, (2013, February 13).

“Observatories of Iran”. Presented at the Astronomy Club of Sciences & Astronomy Center, Sciences & Astronomy Center of Tehran, (2013, July 16).

“History of astronomy under the shadow of giants”. Presented at the Astronomy Club of Sciences & Astronomy Center, Sciences & Astronomy Center of Tehran, (2013, April 24).

## Popular Science Writing

"Defenseless eyes against the sky. A narrative of some astronomical observations before the invention of the telescope". Nojum Magazine [Iranian Magazine of Astronomy]. No.32 (04): pages: 36–41, (2023)

## Media Appearances

The Traveler’s Guide to the Galaxy, an astronomical TV show, Channel 4 of Islamic Republic of Iran Broadcasting (IRIB), The third season, Autumn and Winter 2021.

The Traveler’s Guide to the Galaxy, an astronomical TV show, Channel 4 of Islamic Republic of Iran Broadcasting (IRIB), The second season, Autumn and Winter 2020.

The Opportunity Street, a radio talk, RadioGoftogoo (IRIB), 2019.

## Other Certifications

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- **Author Workshop for Early Researchers - An Introduction to Scientific Publishing**, Elsevier, 2018, Tehran
- **Pedagogy**, Iran Technical and Vocational Training Organization, 2015, Tehran

## Professional Activities

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### Reviewer

- Journal for the History of Science [Tarikh-e-Elm], [in Persian], (2020- ).
- Nazariyat, Journal for the History of Islamic Philosophy and Sciences, (2025- ).

### Member

- The Association for the Study of Persianate Societies (ASPS) (2024-).
- Islamic Crescents Observation Project (ICOP), [Abu Dhabi] (2018-).
- The International Astronomical Center of Abu Dhabi (IAC), [Abu Dhabi], (2018-).

### Languages

- Persian [Farsi], Native
- English: Competent in academic reading and writing; intermediate in listening and speaking
- Arabic: Familiar with classical Arabic texts for research purposes