

Hassan Amini

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RESEARCH AREAS

History of mathematics: the study of Persian and Arabic manuscripts
History of Science in the classical Islamic age
Philosophy of Science
History of Islamic philosophy and theology, especially in relation with sciences
History of ancient Mathematics: mathematical clay tablets

INTEREST SUBJECTS

Persian literature: Ancient Texts and Modern Poetry
Critical thinking
Eastern Philosophy
History of Islamic Art and Architectural

ACADEMIC HISTORY

2016 – Assistant Professor, Institute for the History of Science, University of Tehran
2020 Postdoctoral Researcher, History of Science, Centre Léon Robin, Sorbonne Université
2015 Lecturer, Tarbiat Modares University, Mathematics Department
2014 Lecturer, Institute for Humanities and Cultural Studies
2014 Lecturer, Iranian Institute of Philosophy
2013 Lecturer, Institute for the History of Science, University of Tehran
2008 – 2014 Ph.D. student, History and Philosophy of Science, Iranian Institute of Philosophy
2012 Visiting Scholar, le laboratoire SPHERE, Université Paris Diderot
2004 – 2008 M.Sc. studies, History of Science, Institute for the History of Science, University of Tehran
1999 – 2004 B.Sc. studies, Department of Chemical Engineering, Sharif University of technology

LANGUAGES & SKILLS

Persian: Native
French, English: Proficient
German, Italian, Modern Greek: Basic

Skilled in Classical Arabic
Skilled in reading Arabic and Persian old manuscripts

READING

Ancient mathematical clay tablets
Siyāq documents

DEGREES

Ph.D.	History and Philosophy of Science	Iranian Institute of Philosophy	2014
M.Sc.	History of Science	University of Tehran	2008
B.Sc.	Chemical Engineering Sharif	University of Technology	2004

THESIS & DISSERTATION

Ph.D.	The Status of the Spherical Trigonometry in the History of Geometry
M.Sc.	Al-Risāla al-Muʿīniyya of Khwādjā Naṣīr al-Dīn al-Ṭūsī: A Critical Edition and Study
B.Sc.	Designing an operation unit for producing Glycerin

PUBLICATION IN ENGLISH

A 10th Century Mathematical Glossary, In: Zack, M., Schlimm, D. (eds) *Research in History and Philosophy of Mathematics*. *Annals of the Canadian Society for History and Philosophy of Mathematics/ Société canadienne d'histoire et de philosophie des mathématiques*. Birkhäuser, Cham (forthcoming).

A Non-aristotelian Interpretation of Orbs in Classical Islamic Age: Shams al-Dīn al-Samarqandī in Science of the Cosmos and the Soul, *Nazariyat Journal for the History of Islamic Philosophy and Sciences* (forthcoming).

“Astronomical Works of Shams al-Dīn al-Samarqandī: A Preliminary Study with an Edition of Two Persian Texts, the Astronomical Section of *The Subtleties of Wisdom (Laṭā'if al-ḥikma)* and *A Chapter on Knowing the Degrees of Temporal Hours (Faṣl dar ma'rifat-i 'ajzā'-i sā'āt-i zamānī)* (forthcoming).

Kharaqī's Star Catalogue: A Star table from Medieval Arabic Astronomy, with Hanfi Ghalanadari, *Journal for the History of Science* 20.1 (2022): 1-45. [↗](#)

'Anbūba: A Medieval Instrument for Measuring Relative Ground level, with Reza Kiani, *Journal for the History of Science* 19.2 (2022): 85-103. [↗](#)

PUBLICATION IN PERSIAN

On the Origin of the Three Persian Geometrical Treatises and the Critical Edition of Mukhtaṣar Fī al-Handasa (a Short book on Geometry), with Narges Assarzaghan, *Journal for the History of Science* 18.2 (2020): 447-485. [↗](#)

The Historical Significance of the Commentary on Theodosius' Sphaerica Tradition importance: al-Ḥawāshī al-Bāqirīyah, with Zeynab Sayyar, *Journal for the History of Science* 16.2 (2019): 141-172. [↗](#)

A Review on the History and Philosophy of Mathematics, *Critical Studies in Texts & Programs of Human Sciences* 18.1 (2018): 1-21. [↗](#)

On the Two Major Approaches in Historiography of Mathematics, *Journal for the History of Science* 14.1 (2016): 21-40. [↗](#)

Harmonic Proportion: The Edition of Risāla Ta'līfiyyah by Abu Ishāq Kubānānī, *Journal for the History of Science* 13.1 (2015): 1-30. [↗](#)

“Handasah” (Geometry), *Encyclopedia of Iran*, 2015.

Spherical Interpretation of Plane Geometry in Menelaus of Alexandria's Sphaerica, *Journal for the History of Science* 11.1 (2013): 31-46. [↗](#)

The Philosophy of Sciences, *Monthly Journal of philosophy*, vol. 5, 2012.

“Jawzahar” (Node), *The Encyclopedia Islamica*, vol. 18, 2010.

“Jawāhir nāmah” (Books of Ornaments), *The Encyclopedia Islamica*, vol. 18, 2010.

BOOK

History and Philosophy of Science. in collaboration with Hossein Masoumi Hamedani. Tehran: Hermes Publishers, 2018 (in Persian).

TRANSLATION INTO PERSIAN

From English

Barrisī intiḡāl ‘ulūm az Yūnānī bi ‘Arabī, *Miras-e Elmy-ye Eslam va Iran*, 2015. (The translation “Problems of the transmission of Greek Scientific Thought into Arabic: Examples from mathematics and optics” by Roshdi Rashed)

Muqaddimah Kitāb Tadhkirat fī ‘ilm al-Hay’ah, Mirs-e Maktub publication, 2015. (The translation of Jamil Ragep’s introduction on Nasir al-Din al-Tusi’s *Memoir on Astronomy*)

From French

Muṭāla‘iyi maḡāṭī‘ makhrūṭī dar duriyi Islāmī, *Miras-e Elmy-ye Eslam va Iran*, 2013. (The translation “L’étude des sections coniques dans la tradition Arabe” by J. P. Hogendijk)

From German

Risālah ḡisāb Ānānyāy Shyrākī *Miras-e Elmy-ye Eslam va Iran*, 2021. (The translation “Des Anania von Schirak Arithmetische Aufgaben” by P. Saha Kokian)

TRAININGS

Teaching skills	14 hours	2022
HSE: health, safety, and environment	2 hours	2021
Academic ethics	10 hours	2021
International academics associations	6 hours	2021
Religious intellectualism and the history of Islamic civilization	25 hours	2021
Writing a course description	7 hours	2020
Preparation of teaching scenarios and educational videos	5 hours	2020
Monitoring and evaluation of students learning	6 hours	2020
Designing an online test for an electronic learning system	4 hours	2020

LECTURE

Khayyam's philosophy of mathematics, University of Isfahan, May 2022.

Linguistic hospitality in Persian scientific works." BSHM-CSHPM, People, Places, Practices Conference, University of St Andrews, Scotland, July 2021. [↗](#)

History of mathematics in Persian manuscripts: the manuscript collection number 772 of la Bibliothèque Nationale de France, Institute for the History of Science, University of Tehran, July 2021.

A delicate method for the calculation of π in an anonymous 15th-century text in Arabic, Séminaire Lecture de Textes Mathématiques Anciens, Université Paris Diderot, October 2020.

Which history of science must be chosen?, Iranian Association for Popularization of science, November 2020.

The Arabic commentaries on Theodosius *Sphaerica*, Topics on History of Greek and Islamic Mathematics, April 2019.

Absence of Misunderstanding in the Confrontation between two Methods in Historiography of Science, The Historiography of Science: Theory and Method, Tehran, 2018.

The *Majmū'at al-Şanāyi'*: a Treatise on 160 Arts, History of Natural Sciences in Islamic and Iranian Civilization, Tehran, 2017.

Khayyam's contribution to studies on parallel postulate, The 2nd National seminar in honor of Khayyam, Neyshabur, 2017.

The mathematical compass between East and West, XXXV Scientific Instrument Symposium: Instruments between East and West, Istanbul, 2016. [↗](#)

History of Mathematics and Mathematics Education, World Science Day, Tehran, 2016.

Socratic Seminar and Science Education, World Science Day, Tehran, 2015.

Geometry and Intuition, Iranian Institute of Philosophy, May 2012.

The Spherical Trigonometry: A Geometry for Heavens, Iranian Institute of Philosophy, July 2011.

Gedankenexperiments in History of Islamic Science, Iranian Institute of Philosophy, January 2010.

Khayyam and the History of Mathematics, Tehran University, May 2010.

Natural Principles of 'Ilm al-Hay'a, International Conference of Islamic Philosophy and Challenges of the Contemporary World, Tehran, 10 – 13 November 2009.

ACADEMIC MISFORTUNES

Missing to present my article "A Fragment of *De Quaesitis*: Avicenna's Contribution to a Debate on the Celestial Bodies" in the conference "From Toledo to Gotha: New Perspectives on the Impact of Avicenna upon Sciences and Philosophy in Europe" in KU Louvain due to the Belgian embassy in Iran not collaborating on a visa appointment

Missing my part in bilateral Erasmus+ International Credit Mobility with the University of Western Macedonia because of the Coronavirus outbreak

this list is not exhaustive.

TEACHING EXPERIENCE

Ph.D.

University of Tehran, Institute for the History of Science
Sociology of Science

Iranian Institute of Philosophy
History of Science

Institute for Humanities and Cultural Studies
History of Science

M.Sc.

University of Tehran, Institute for the History of Science
Fundamentals of Islamic Mathematics, Institute for the History of Science, University of Tehran
General History of Ancient and Modern Mathematics
Mathematics in Medieval Islam 1
General History of Science 1 (Antiquity)
General History of Science 2 (Medieval Europe and Islam)
Philosophy of Science
History of Islamic Philosophy 1
Terminology of the History of Science
Historical Texts in Arabic and Persian
The Study of Manuscripts
History of Byzantine
Texts of the History of Science in other Languages (English, French, German, etc.)

University of Tehran, Faculty of Theology and Islamic Studies
History of Politico-Intellectual Streams in Muslim World

Tarbiat Modares University, Mathematics Department
The philosophy of Mathematics in Islamic era
Mathematics and the classification of science in Islamic era
Terminology of the History of Science

B.Sc.

University of Tehran, Faculty of Theology and Islamic Studies
Specialized English 1
Specialized English 2
Specialized English 3

University of Tehran, Faculty of Theology and Islamic Studies
An Introduction to Eastern Philosophy

Workshops

A workshop on critical Thinking, National Library of Iran, for library members, ten sessions

A workshop on the History of Mathematics, Iranian National Science and Technology, for college students, Museum, one session

THESIS SUPERVISION

Master Theses

Risālat al-Bihishtīyyat by Abū al-ʿlā Muḥammad ibn Aḥmad Isfarāyīnī: An edition and a survey, Alireza Azizgol (Supervisor)

Opposing the Astrology in the Islamic East Until the Beginning of the Safavid Era: Bibliography and Arguments, Muhammad Alizade Vagasloo (Second Supervisor)

A Comparative Study of the Persian Translations of ʿAlī ibn ʿĪsā's with the Critical Edition of the Oldest Translation of Its First Book, Seyyed Hamed Kheradpishe Hashemi, 2022 (Second Supervisor)

The Theory of Evolution in the Pahlavi Era: A Research on the Attitude of Marxist Groups, Sajjad Sarbolouki, 2022 (Second Supervisor)

Taqī al-Dīn al-Rāšid's independent treatise on the construction of mechanical clocks: study and analysis of clock's components, Setareh Azarnoush, 2022 (Second Supervisor)

A Survey of the Scientific Contents and News in the Qajar Scientific Periodicals, Mona Shakerian, 2021 (Second Supervisor)

The Method of Construction and Operation of the Astronomical Instrument "Maṭlaʿ al-ʿAnwār": Critical Edition and a Commentary of the Treatise *Maṭlaʿ al-ʿAnwār wa Maṭmah al-ʿAnzār* by Mullā Muḥammad Bāqir Yazdī, Barat Besharati Manesh, 2019 (Second Supervisor)

Waste management in Tehran during the Qajar era based on the *Juzwiyyi Baladīyya* written by Mīrzā Abbās Khān Muhandis Bāshī, Mujataba Mousavian, 2019 (Second Supervisor)

JOURNAL EDITOR

Iranian Journal for the History of Islamic Civilization, English editor, 2019–present. [↗](#)

REVIEWER

Journal for the History of Science, Print ISSN 1735-0573, Online ISSN 2717-1965

Iranian Journal for the History of Islamic Civilization, Print ISSN 2228-7906, Online ISSN 2645-5110

Scientific Journal of Islamic Civilization and Religion Studies, Print ISSN 2676-4830, Online ISSN 2783-1000

Metaphysics, Print ISSN 2008-8086, Online ISSN 2476-3276

The Journal of History of Islam and Iran, Print ISSN 2008-885X, Online ISSN 2538-3493

Award REFEREE

Farabi International Award, Tehran, 2018 -Present

Book of the Year of Islamic Republic of Iran, Tehran, Iran, 2018 - Present

CONFERENCE ORGANIZER

Co-Director of the conference *Topics on History of Greek and Islamic Mathematics*, a collaboration between the University of Tehran and the University of Western Macedonia, Tehran, 23-24 April 2019.

Executive director of the conference *The History of Mathematics in Honor of Professor Roshdi Rashed*, University of Tehran, Tehran, 2018.

Executive director of Seminar *The Historiography of Science: Theory and Practice*, University of Tehran, Tehran, 2018.

Member of Scientific Committee in the seminar *Philosophy and History of Science*, Shahid Beheshti University, Tehran, Tehran, 2014.

GRANT

Scholarship for postdoctoral research from the French embassy, 2020.

Scholarship for as a visiting scholar from the Iranian Ministry of Science, Research and Technology, 2012.

AWARD

Book award of the year (Worthy of appreciation) for the book *History and Philosophy of Science*, 2020.

Best review of the year for the paper "A Review on the History and Philosophy of Mathematics", 2019.

MEMBERSHIP & RESPONSIBILITY

The History of Science Library Committee, Member, 2018 - Present

The Iranian Society of Philosophy, Member, 2009 - Present