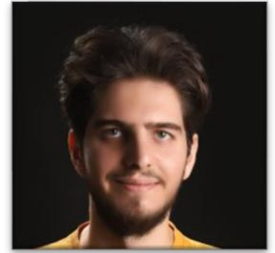


MOHAMMADREZA TAVAKOLI MOGHADAM

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RESEARCH INTERESTS

- ✓ Mathematical proof and reasoning
- ✓ Teaching early geometry and algebra
- ✓ Integration of digital technologies into mathematics teaching
- ✓ learning analytics
- ✓ Designing instructional tasks with GenAI

EDUCATION

Ph.D. in Mathematics Education

2020 – 2026

Shahid Beheshti University, Tehran, Iran GPA: 19.5/20

Ranked 2nd nationally in the Ph.D. entrance examination (2020).

Dissertation: The Role of Geometric Proof and Reasoning in Secondary Mathematics Curriculum: Past, Present, and Future.

M.Sc. in Mathematics Education

2018 – 2020

Shahid Beheshti University, Tehran, Iran GPA: 18/20

B.Sc. in Mathematics and Its Applications

2014 – 2018

Isfahan University of Technology, Isfahan, Iran GPA: 16.5/20

PUBLICATIONS

In Press

Gooya, Z., Kumar, R., Sgreccia, N., & Tavakoli Moghadam, M. (in press). Resources with teachers and by teachers. In *Advances in geometry education: The 26th ICMI study*. Springer.

Under Review

Tavakoli Moghadam, M., & Gooya, Z. Opportunities and barriers of integrating digital technologies into mathematics teaching: The perspectives of mathematics teachers using GeoGebra. (Major revision resubmitted to *Digital Experiences in Mathematics Education*).

Tavakoli Moghadam, M. From Empirical Judgements to Deductive Proof: Reconstructing an Emerging Classroom Conception of Triangle-Congruence Proving. (Submitted).

Published Journal Articles

Tavakoli Moghadam, M., & Gooya, Z. (2026). Challenges in learning triangle congruence proofs among eighth-grade students. *Journal of Teaching-Research*. 14(3), pp. 22–42. (In Farsi).

Tavakoli Moghadam, M., & Gooya, Z. (2025). Mathematics teachers' perspectives on integrating dynamic geometry environments with teaching, with a focus on proof and reasoning. *Journal of Research in Curriculum Planning*. 22(3), pp. 45–66. (In Farsi).

Conference Proceedings & Presentations

Tavakoli, M., & Gooya, Z. (2024). Challenges of integrating DGS with geometry education. *Proceedings of the ICMI Study 26 Conference*, Reims, France.

Tavakoli Moghadam, M., & Gooya, Z. (2024). The role of dynamic geometry environments in proof and reasoning from the perspective of secondary mathematics teachers. *19th National Conference on Iranian Mathematics Education & 5th National Conference on Pedagogical Content Knowledge in Mathematics Education*, Isfahan, Iran. (In Farsi).

Tavakoli Moghadam, M., & Gooya, Z. (2024). The digital divide in the use of dynamic geometry software in mathematics teaching from teachers' perspective. *20th Annual Conference of the Iranian Curriculum Studies Association*, Tehran, Iran. (In Farsi).

Tavakoli Moghadam, M. (2023). Project-based learning in mathematics: An action research report on seventh graders. *19th Annual Conference of the Iranian Curriculum Studies Association*, Ahvaz, Iran. (In Farsi).

Tavakoli, M., & Gooya, Z. (2022). Preliminary report on a lesson study project regarding geometry in Iran. In P. Neves, R. de Silva, & F. Dario (Eds.), *Proceedings of the International Seminar of Lesson Study in Mathematics Teaching (SILSEM)*, 136–142. Vitória, Brazil.

Tavakoli Moghadam, M., & Gooya, Z. (2021). The effect of new abacuses on learning mathematics: From dream to reality. *Proceedings of the 51st Annual Iranian Mathematics Conference*, Kashan, Iran. (In Farsi).

TEACHING & ACADEMIC EXPERIENCE

Instructor (Incoming) — Farhangian University <i>Tehran, Iran</i>	<i>Starting 2026</i>
Mathematics Teacher — Mofid High School <i>Tehran, Iran</i>	<i>2024 – Present</i>
Teaching Assistant, Calculus 1 & 2 — Shahid Beheshti University <i>Tehran, Iran</i>	<i>2021 – 2022</i>
Mathematics Teacher — Hashtroudi High School <i>Tehran, Iran</i>	<i>2021 – 2026</i>
Mathematics Teacher — Khayatzadeh High School <i>Kashan, Iran</i>	<i>2017 – 2021</i>
Organizer & Instructor — Mathematics Workshops for High School Students <i>Various schools, Iran</i>	<i>2016 – 2020</i>

TECHNICAL & RESEARCH SKILLS

- Quantitative & qualitative analysis: SPSS (intermediate), MAXQDA (intermediate)
- Programming & databases: Python (intermediate), SQL (intermediate)
- Data analysis & data engineering: Excel (intermediate), SSIS, SSAS & SSRS (intermediate), Power BI (intermediate)

OTHER ACTIVITIES

- Editor-in-Chief, Sigma Andisheh Magazine, Department of Mathematics, Isfahan University of Technology (2016–2017)
- Vice President, Mathematics Student Association, Isfahan University of Technology (2016–2017)
- Representative of Isfahan University of Technology, International Mathematics Competition (IMC), Bulgaria (2017)

- Representative of Isfahan University of Technology, Iranian Mathematics Competitions, Iranian Mathematical Society (2017)
- Mathematics Online Games Project: Educational Innovations Boot Camp organized by "Khwarizmi Foundation for Science and Technology"
- Creating a website and publishing mathematics videos and blogs (2020–present). www.mrtavakoli.ir

LANGUAGES

English (advanced)

REFERENCES

Prof. Zahra Gooya, Department of Applied Mathematics, Faculty of Mathematical Sciences, Shahid Beheshti University, Tehran. zahra_gooya@yahoo.com

Dr. Soheila Gholamazad — Organization for Educational Research and Planning, Ministry of Education, Iran. Soheila_azad@yahoo.com

Prof. Abolfazl Rafiepour — Department of Mathematics Education, Faculty of Mathematics and Computer, Shahid Bahonar University of Kerman, Kerman, Iran. Rafiepour@uk.ac.ir