

# Sina Rismanchian

8816 Palo Verde Rd  
Irvine, CA  
US

☎ +1 (949) 685 5348  
✉ [srismanc@uci.edu](mailto:srismanc@uci.edu)

## Research Interests

AI in Education, Computational Models of Learning, AI Literacy

## Education

- 2022-present **Doctor of Philosophy (PhD)**, *Education*, Advisor: Shayan Doroudi.  
University of California, Irvine, CA, US
- 2022-2024 **Masters of Arts (MA)**, *Education*, GPA: 3.95, Advisor: Shayan Doroudi.  
University of California, Irvine, CA, US
- 2016-2022 **Bachelor of Science (B.Sc)**, *Computer Engineering*, GPA: 18.27/20.  
Sharif University of Technology, Tehran, Iran

## Publications

- Rismanchian, S.**, Liu, P., Orona, G., Pritchard, D., & Doroudi, S. (Under Review). Artificial Integrity: Concerning Patterns of AI Usage Among Undergraduate Students. *Educational Researcher*.
- Jiang, Z., Li, Q., **Rismanchian, S.**, Kim, J., Xu, Z., & Xu, D. (2026). Timewise: Integrating cognitive behavioral therapy and self-regulated learning approaches in an llm-based time management coaching system to support college students in online learning. *Society for Information Technology & Teacher Education International Conference*, 3537–3547.
- Rismanchian, S.**, Babar, E. T. R., & Doroudi, S. (2026). What undergraduate students need to know and actually know about generative AI. *Computers and Education: Artificial Intelligence*, 100554.
- Rismanchian, S.**, & Doroudi, S. (2025a). The evolution of research on AI and education across four decades: Insights from the AIxEd framework. *International Journal of Artificial Intelligence in Education*.
- Rismanchian, S.**, & Doroudi, S. (2025b). Reconciling different theories of learning with an agent-based model of procedural learning. *Proceedings of the Annual Meeting of the Cognitive Science Society*.
- Rismanchian, S.**, Razeghi, Y., Singh, S., & Doroudi, S. (2025). TurtleBench: A visual programming benchmark in Turtle geometry. *Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics*.
- Rismanchian, S.**, Doroudi, S., & Razeghi, Y. (2024). Turtle-like geometry learning: How humans and machines differ in learning Turtle geometry. *Proceedings of the AAAI 2024 Spring Symposium on Human-like Learning*.
- Ojeda-Ramirez, S., **Rismanchian, S.**, & Doroudi, S. (2023). Learning about AI to learn about learning: Artificial intelligence as a tool for metacognitive reflection. *EdArxiv*.

**Rismanchian, S., & Doroudi, S. (2023a).** A computational model for the ICAP framework: Exploring agent-based modeling as an AIED methodology. *24th International Conference on Artificial Intelligence in Education*, 792–797.

**Rismanchian, S., & Doroudi, S. (2023b).** Four interactions between AI and education: Broadening our perspective on what AI can offer education. *Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners, Doctoral Consortium and Blue Sky: 24th International Conference, AIED 2023, Tokyo, Japan, July 37, 2023*, 1–12.

---

## Professional Experiences

### Industrial Internship

2025 **Data Science and AI Intern**, *McGraw Hill*, US.

Training, fine-tuning, and prompt-engineering large language models to 1) predict students' learning behaviors on ALEKS, 2) generate automatic faded worked examples to scaffold learning materials, and 3) automatically identify students' misconceptions when solving algebraic problems.

### Research Assistant

2021 **Using Deep RL to Improve AI Teachers**, *Aalto University*, Finland, Internship.

I worked with Aurelien Nioche under Prof. Antti Oulasvirta as a research intern in the HCI lab at the communications and networking department at Aalto University. I worked on employing the idea of DeepRL-based teachers in teaching a second language vocabulary using the cognitive characteristics of learners. My main duties were implementing Curriculum Learning methods, designing the environment, and experimenting and visualizing novel ideas to improve agents.

### Technical Experience

2018-19 **Software Developer**, *Quera*.

Working in Quera developing quera.ir website back-end using Python and Django. I was mainly responsible for developing the "Quera College" product. Quera College is a MOOC for interactive problem-based programming courses. The college platform has more than 10,000 users when writing this.

---

## Honors and Awards

2025-26 **Distinguished Public Impact Fellow**, *\$10,000*, University of California, Irvine. This fellowship is intended to support and highlight academically excellent students whose research demonstrates the potential to significantly improve or enrich the lives of people in California and beyond.

2025 **Doctoral Consortium on Responsible Computing, AI, and Society**, Georgia Tech, Atlanta, GA.

2023 **Simon Initiatives LearnLab Summer School**, *Admitted to the summer school with registration scholarship*, Carnegie Mellon University, Pittsburgh, PA.

2023 **Artificial Intelligence in Education Society**, *Granted the Travel and Registration Scholarship*, The 24th International Conference on Artificial Intelligence in Education, Tokyo, Japan.

- 2022 **International Bebras Challenge**, *Author of the Best Task*, North Macedonia-Virtual.  
The computational thinking task that Prof. Masoud Seddighin and I designed was selected as the best task among more than 150 tasks.
- 2021 **Aalto University**, *Admitted to the ASCI internship program*, Finland.
- 2016 **National Universities Entrance Exam**, *Math and Physics*, Ministry of Sciences.  
**Ranked 75th** among more than 160,000 participants
- 2015 **Tournament of Towns**, *Algebra*, Russia.  
Represented **Isfahan, Iran** in the 36<sup>th</sup> *International Tournament of Towns* (2014-2015), a global mathematics competition with over 100 participating towns from more than 25 countries, and our team achieved the **Noticeable Advance Degree** (2<sup>nd</sup> place).

---

## Academic Service

- 2026 **Program Committee**, *International Conference on Artificial Intelligence in Education*.
- 2025 **Reviewer**, *Neurips 2025 Multimodal Algorithmic Reasoning (MAR) Workshop*.
- 2025 **Reviewer**, *ACM TEI 26*.
- 2024-present **Reviewer**, *The ACM CHI Conference on Human Factors in Computing Systems (CHI)*.
- 2023-present **Reviewer**, *International Journal of Interactive Learning Environments*.

---

## Work Experience

- 2022 **Scientific Team Member in the Bebras Contest**, *Fatemi Cultural Institute*, I was a member of the Bebras contest scientific team. We were responsible for designing new problems for the international contest, translating and categorizing the international problems for the national contest, and supervising a decent holding of the contest..
- 2019 **Curriculum Designer**, *Quera*, *Fundamentals of Programming and Algorithmic Thinking*, Quera College.  
Online course [Fundamentals of Programming and Algorithmic Thinking](#) on the Quera College platform. More than 6300 students have attended the course so far.

### Teaching Experience

- 2022-present **Geometry Teacher**, *Hemmat Highschool*.  
Teaching gradet 9th geoemetry.
  - 2019-2021 **C++ Programming Teacher**, *Allame Helli 5 (NODET) Highschool*.  
I taught computational thinking by teaching C++ programming.
- ### Teaching Assistant
- 2024 **Cognition and Learning in K-12 Education**, *Prof. Shayan Doroudi*.
  - 2020 **System Analysis and Design**, *Prof. Amin Fazli*.
  - 2018 & 19 **Probability and Statistics**, *Prof. Sharifi-Zarchi*.
  - 2018 **Data Structures and Algorithms**, *Prof. Ghodsi Fall 2018..*
  - 2017 & 18 **Fundamentals of Programming in C**.

---

## Relevant Courses

- 2023 **Role of Language Models in Cognitive Science**, A+, Graduate Course.
- 2023 **Learning Analytics Practicum**, A+, Graduate Course.
- 2022 **Learning Analytics Fundamentals**, A+, Graduate Course.
- 2020 **Machine Learning for Bioinformatics**, 17.7/20, Graduate Course.
- 2019 **Design of Algorithms**, 20/20.
- 2018 **Data Structures and Algorithms**, 20/20.
- 2018 **Probability and Statistics**, 18.9/20.
- 2021 **Using Big Data to Solve Economic and Social Problems**, Audited, Virtual.

---

## Volunteer Experiences

- 2025-present **Vice President**, *Associated Doctoral Students In Education*, School of Education, University of California, Irvine.
- 2024-present **International Students Representative**, *Associated Doctoral Students In Education*, School of Education, University of California, Irvine.
- 2020 **Product Owner**, *Rastaa*.  
Product Owner of Interactive Workshops platform, used for Rastaa Summer School 2020. We designed six workshops on topics like Self-Driving Cars, Coding Theory, Game Theory, etc. High school students attended the Summer School.
- 2018 **Head of Probability Workshop**, *Computer Science Summer School*.  
CSSS2018 which was held in September 2018 in Isfahan. We tried to teach high school students basic probability concepts such as discrete probabilities, expectation, and Bayesian inference in a creative approach. More than 120 students attended the school.
- 2021 **Central Council**, *Students' Scientific Chapter (SSC) at Computer Engineering Department, Sharif University of Technology*.

---

## Languages

- Persian Native proficiency
- English Professional working proficiency, TOEFL iBT: 107 (R: 29, L: 30, S: 26, W: 22)
- Arabic Basic reading proficiency