

Mohammad Hossein Rezaei

Curriculum Vitae

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Education

2022–Present **University of Arizona, B.S. in Computer Science, Tucson**

- Minor: Mathematics
- GPA: 4.0/4.0
- Coursework available [here](#).

Experience

June 2024 - **Stanford NLP Group, Undergraduate Visiting Research Intern**

Present Advisor: Dr. Diyi Yang

- Mentors: Caleb Ziems and Hao Zhu
- Researched on physical social norms understanding in language models
- Part of the Stanford LINXS Summer Research Program

June 2024 - **University of Arizona - Computational Language Understanding (CLU) Lab,**

Present *Undergraduate Research Assistant*

Advisors: Dr. Eduardo Blanco, Dr. Steven Bethard

- Mentors: Caleb Ziems and Hao Zhu
- Research Projects:
 - Generalization in Language Models (In Progress)
 - Further Pre-training Language Models for Negation Understanding (Under Review)
 - Affirmative Interpretations and Negation Understanding (ACL 2024 - First Author)
 - Machine Generated Text Detection (SemEval 2024 - First Author)
 - Hallucination Detection in Language Models (SemEval 2024)
 - Interpreting Indirect QAs in Multiple Languages (EMNLP Findings 2024)
 - Aggregating Crowdsourced Forecasts using LSTMs and Transformers (preprint)

July 2023 - **Cornell University - SoNIC Summer Research Workshop, Scholar**

July 2023 Advisor: Dr. Tapomayukh Bhattacharjee

- Mentors: Caleb Ziems and Hao Zhu
- Worked in groups on building a smart assistive cane for individuals with visual impairments
- Implemented perception, motion planning, and control for the robot
- Ranked 2nd in individual final test among 40 participants

Honors and Awards

May. 2024 **Academic Year Highest Academic Distinction, University of Arizona**

Apr. 2024 **Galileo Circle Scholarship, University of Arizona, College of Science**

- Mar. 2024 **Phi Beta Kappa**, *University of Arizona*
- Sep. 2023 **Undergraduate Scholarship**, *Iranian Scholarship Foundation (ISF)*
\$30,000 scholarship for three years based on research experience and community involvement
- May. 2023 **Academic Year Highest Academic Distinction**, *University of Arizona*
- Aug. 2022 **Global Wildcat Scholarship**, *University of Arizona*
Awarded a maximum possible scholarship of \$22,000 annually due to academic excellence

Teaching

- Jan. 2025 - **UofA CSc 144 - Discrete Mathematics for CS I**, *Course Coordinator (Head TA)*
Present
 - Coordinated the course staff and managed the course logistics
 - Mentored the teaching assistants and graders
 - Assisted in designing the course assignments and exams
- Aug. 2023 - **UofA CSc 144 - Discrete Mathematics for CS I**, *Teaching Assistant*
- Dec. 2024
 - Graded homework assignments and exams (150+ students)
 - Held office hours and review sessions
 - Attended the lectures and assisted the instructor

Leadership and Extracurricular Activities

- Mar. 2024 - **Iranian Students Culrual Association of Tucson**, *Director and Treasurer*
Present
 - Hosted cultural events (e.g. Nowruz, Yalda, etc) in Tucson with over 300 attendees
 - Raised over \$10,000 in donations for the association
 - Managed the association's budget and financial transactions
- Jan. 2024 - **UofA - Computer Science Department**, *Computer Science Ambassador*
Present
 - Represented the department at various promotional events and high school visits
 - Led group discussions and presentations at educational outreach events
- Aug. 2023 - **UofA - Computer Science Department**, *Peer Mentor*
Present
 - Guided first-year students with their transition to college
 - Helped students in academic and research directions
 - Organized information sessions on course selection and sharing experiences
- Aug. 2023 - **Google Developer Student Club - UofA**, *Vice Lead*
Present
 - Revitalized the chapter, growing active participation from 15 to over 70 members
 - Hosted workshops for enhancing club members' proficiency in ML and NLP frameworks
- Jan. 2024 - **Apple Pathways Alliance**, *Participant*
- May. 2024
 - Nominated by the department as one of the three students to participate in this program
- Oct. 2023 - **UofA Campus Pantry**, *Student Volunteer*
- Mar. 2024
 - Volunteered two hours weekly, aiding in food distribution

Publications

- 2024 **MohammadHossein Rezaei** and Eduardo Blanco. 2024. **Paraphrasing in Affirmative Terms Improves Negation Understanding**. In *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*, pages 602-615, Bangkok, Thailand. Association for Computational Linguistics.
- 21% Accept. Rate

- 2024 **MohammadHossein Rezaei**, Yaeun Kwon, Reza Sanayei, Abhyuday Singh, and Steven Bethard. 2024. Clulab-uofa at semeval-2024 task 8: Detecting machine-generated text using triplet-loss-trained text similarity and text classification. In *Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024)*, pages 1509-1515, Mexico City, Mexico. Association for Computational Linguistics.
- 2024 **SemEval** Reza Sanayei, Abhyuday Singh, **MohammadHossein Rezaei**, and Steven Bethard. 2024. MARiA at SemEval-2024 Task 6: Hallucination Detection Through LLMs and MNLI and Cosine similarity. In *Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024)*, Mexico City, Mexico. Association for Computational Linguistics.
- 2023 **EMNLP** Zijie Wang, Md Hossain, Shivam Mathur, Terry Melo, Kadir Ozler, Keun Park, Jacob Quintero, **MohammadHossein Rezaei**, Shreya Shakya, Md Uddin, and Eduardo Blanco. 2023. [Interpreting Indirect Answers to Yes-No Questions in Multiple Languages](#). In *Findings of the Association for Computational Linguistics: EMNLP 2023*, pages 2210-2227, Singapore. Association for Computational Linguistics.
- 2022 **Rezaei, M..** (2022). Solving Functional Equations in R^+ Using Inequalities and Sequences. *Mathematical Reflections*, 2022(3). www.awesomemath.org/wp-pdf-files/math-reflections/mr-2022-03/mr_3_2022_solving_functional_equations_in_r+.pdf