MohammadHossein 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 - Present **Stanford NLP Group**, *Undergraduate Visiting Research Intern*
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 - Present **University of Arizona - Computational Language Understanding (CLU) Lab**, *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 - July 2023 **Cornell University - SoNIC Summer Research Workshop**, *Scholar*
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 - Present   **UofA CSc 144 - Discrete Mathematics for CS I**, *Course Coordinator (Head TA)*
- 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 - Dec. 2024   **UofA CSc 144 - Discrete Mathematics for CS I**, *Teaching Assistant*
- 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 - Present   **Iranian Students Culrual Association of Tucson**, *Director and Treasurer*
- 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 - Present   **UofA - Computer Science Department**, *Computer Science Ambassador*
- Represented the department at various promotional events and high school visits
- Led group discussions and presentations at educational outreach events

Aug. 2023 - Present   **UofA - Computer Science Department**, *Peer Mentor*
- 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 - Present   **Google Developer Student Club - UofA**, *Vice Lead*
- 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 - May. 2024   **Apple Pathways Alliance**, *Participant*
- Nominated by the department as one of the three students to participate in this program

Oct. 2023 - Mar. 2024   **UofA Campus Pantry**, *Student Volunteer*
- Volunteered two hours weekly, aiding in food distribution

Publications

2025 NAACL   **MohammadHossein Rezaei** and Eduardo Blanco. 2025. Making Language Models Robust Against Negation. In *Proceedings of the 2025 Conference of the Nations of America Chapter of the Association for Computational Linguistics (Volume 1: Long Papers)*, Albuquerque, New Mexico, USA. Association for Computational Linguistics. *Accepted, to appear*.

2024
ACL
21% Accept. Rate

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.

2024
SemEval
Workshop

MohammadHossein Rezaei, Yeaeun 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
Workshop

Reza Sanayei, Abhyuday Singh, **MohammadHossein Rezaei**, and Steven Bethard. 2024. MARiA at SemEval-2024 Task 6: Hallucination Detection Through LLMs and MNLI and and Cosine similarity. In *Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024)*, Mexico City, Mexico. Association for Computational Linguistics.

2023
EMNLP
Findings

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
Highschool Math
Olympiad Journal

Rezaei, M.. (2022). Solving Functional Equations in R^+ Using Inequalities and Sequences. *Mathematical Reflections*, 2022(3). awesomemath.org/wp-pdf-files/math-reflections/mr-2022-03/mr_3_2022_solving_functional_equations_in_r+.pdf