

# 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

May 2025 - **Scale AI, Research Intern, Post-training**  
Present

Mar. 2023 - **University of Arizona - Computational Language Understanding (CLU) Lab,**  
Present *Undergraduate Research Assistant*

Advisors: Dr. Eduardo Blanco, Dr. Steven Bethard

- Research Projects:
  - Using Negated Commonsense Knowledge to Improve Negation Understanding (Under Review)
  - Further Pre-training Language Models for Negation Understanding (NAACL 2025 - First Author)
  - 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)

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

Mar. 2025 Advisor: Dr. Diyi Yang

- Mentors: Caleb Ziems and Hao Zhu
- Researched on physical social norms understanding in language models (ACL 2025 (Findings) - Equal Contributor)
- Created EgoNormia, a challenging benchmark for evaluating physical social norms understanding in multimodal language models
- Part of the Stanford LINXS Summer Research Program

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

July 2023 Advisor: Dr. Tapomayukh Bhattacharjee

- 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

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## Honors and Awards

- May 2025 **Academic Year Highest Academic Distinction**, *University of Arizona*
- Apr. 2025 **Galileo Circle Scholarship**, *University of Arizona, College of Science*
- 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

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## 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

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## 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

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## Publications

- 2025 **MohammadHossein Rezaei\***, Yicheng Fu\*, Phil Cuvin\*, Caleb Ziems, Yanzhe Zhang, Hao Zhu, and Diyi Yang. 2025. **EgoNormia: Benchmarking Physical Social Norm Understanding**. In *Findings of the Association for Computational Linguistics: ACL 2025*, Vienna, Austria. Association for Computational Linguistics. *Accepted, to appear*.
- 2025 **MohammadHossein Rezaei** and Eduardo Blanco. 2025. **Making Language Models Robust Against Negation**. In *Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics: Human Language Technologies (Volume 1: Long Papers)*, pages 8123–8142, Albuquerque, New Mexico. Association for Computational Linguistics.  
23% Accept. Rate
- 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 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 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.  
43% Accept. Rate
- 2022 **Rezaei, M..** (2022). **Solving Functional Equations in  $R^+$  Using Inequalities and Sequences**. *Mathematical Reflections*, 2022(3), 1–4.  
Highschool Publication

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## Preprints

- 2025 Zijie Wang, **MohammadHossein Rezaei**, Farzana Rashid, and Eduardo Blanco. 2025. Commonsense Knowledge with Negation: A Resource to Enhance Negation Understanding. *Under Review*.

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## Service

- Reviewing ACL ARR Review (Feb, May 2025).

Volunteer NAACL 2025.