

# Marzia Nouri

## RESEARCH INTERESTS

- Natural Language Processing (NLP)
- Low-Resource NLP
- Interpretability
- Reasoning

## EDUCATION

### Bachelor of Science in Computer Engineering

Sep 2017 - Feb 2022

Isfahan University of Technology, Isfahan, Iran

GPA: 16.34/20, 17.62/20 over the last two years

## PUBLICATIONS

- Yu X., Dalvi F., Durrani N., **Nouri M.**, and Sajjad H., *Latent Concept-based Explanation of NLP Models*. In **Proceedings of EMNLP 2024**. [View Paper](#)
- Ghahroodi O., **Nouri M.\***, Vali Sanian M.\*, Sahebi A.\*, Dastgheib D., Asgari E., Soleymani M., and Rohban M., *Khayyam Challenge (PersianMMLU): Is Your LLM Truly Wise to The Persian Language?* In **Proceedings of COLM 2024**. [View Paper](#)
- **Nouri M.\***, Amani M.\*, Zohrabi R., and Asgari E. *The Language Model, Resources, and Computational Pipelines for the Under-Resourced Iranian Azerbaijani*. In **Proceedings of AACL 2023 (Asia-Pacific ACL)**, [View Paper](#)
- Bahmani Z.\*, Mirbeygi M.\*, Hashemi N.\*, **Nouri M.\***, Amani M.\*, Asgari E., Soleymani Baghshah M., Beigy H., and Movaghar A., *Linguistic Resources and Transformer-based Models for the Machine Translations between Luri and Yazdi Dialects versus Standard Persian*. In **Proceedings of Language and Linguistics (Journal of the Linguistics Society of Iran)**. [View Paper](#)

\*denotes equal contribution

## RESEARCH EXPERIENCE

### Remote Volunteer Research Assistant

Aug 2024 - Present

[Qatar Computing Research Institute \(QCRI\)](#), Doha, Qatar

Supervisor: [Dr. Ehsaneddin Asgari](#)

Structuring data to improve model performance in projects at the intersection of LLMs and culture.

### Remote Volunteer Research Assistant

May 2024 - Present

[HyperMatrix Lab](#), [Dalhousie University](#), Halifax, Canada

Supervisor: [Dr. Hassan Sajjad](#)

Working on the interpretability of NLP models, with one publication to date.

### Remote Volunteer Research Assistant

Jun 2022 - Apr 2024

[Sharif University of Technology](#), Tehran, Iran

Supervisors: [Dr. Mohammad Hossein Rohban](#), [Dr. Mahdieh Soleymani](#), [Dr. Ehsaneddin Asgari](#)

Developed NLP tools for Iranian languages (2 publications) and evaluated LLMs on Persian (1 publication).

## WORK EXPERIENCE

### Junior Data Scientist

Jul 2024 - Present

[Tapsell](#), Tehran, Iran

Conducting research and building generative models for customer support, focusing on chatbot design, RAG systems, and performance optimization.

## TEACHING EXPERIENCE

### Teaching Assistant

Sep 2022 - Dec 2023

[Sharif University of Technology](#), Tehran, Iran

Designed projects, provided student support for a graduate-level NLP course over three semesters.

### English Teacher

Oct 2023 - Aug 2024

[Iran-Europe English Language Institute](#), Tehran, Iran

Instructed students in English language classes, including grammar, vocabulary, listening, and pronunciation.