

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

[Pegah Co. \(Tapsell\)](#), 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.