

MARZIA NOURI

✉ nouri.marzia.1999@gmail.com  [Google Scholar](#)  [marzinouri](#)  [marzinouri.github.io](#)

RESEARCH INTERESTS

• NLP • LLMs • Interpretability • Responsible AI • Low-Resource NLP • Multimodal Learning

EDUCATION

Bachelor of Science in Computer Engineering

Sep 2017 - Feb 2022

Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran

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

Thesis: Question Answering System Using Machine Learning, [GitHub Link](#)

Supervisor: [Dr. Mehran Safayani](#)

PUBLICATIONS

• Yu X., Dalvi F., Durrani N., **Nouri M.**, and Sajjad H., *Latent Concept-based Explanation of NLP Models*. Accepted at [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

Research Assistant

Aug 2024 - Present

Qatar Computing Research Institute (QCRI), Doha, Qatar

Supervisor: [Dr. Ehsaneddin Asgari](#)

Organizing and structuring data in a logical framework to enhance model comprehension and performance, facilitating better contextual understanding and more efficient training for LLMs.

Research Assistant

May 2024 - Present

HyperMatrix Lab, Dalhousie University, Halifax, Canada

Supervisor: [Dr. Hassan Sajjad](#)

Working on the interpretability and safety of NLP models, with ongoing research and one publication to date.

Research Assistant

Apr 2023 - Apr 2024

Raia Center, Sharif University of Technology, Tehran, Iran

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

Evaluated LLMs with a focus on their support for Persian, reasoning, knowledge, fairness, and RAG systems, leading to one publication.

Research Assistant

Jun 2022 - Oct 2023

Language Processing and Digital Humanities Lab, Sharif University of Technology, Tehran, Iran

Supervisor: [Dr. Ehsaneddin Asgari](#)

Developed NLP tools for Iranian languages, leading to two publications on modeling, translation, and classification.

TEACHING EXPERIENCE

Teaching Assistant <i>Sharif University of Technology, Tehran, Iran</i> Course: Natural Language Processing Designed course projects and exercises, providing student support, and assisting with grading and evaluation for graduate level NLP course for three consecutive semesters.	<i>Sep 2022 - Dec 2023</i>
English Teacher <i>Iran-Europe English Language Institute, Tehran, Iran</i> Instructed students in English language classes, including grammar, vocabulary, reading comprehension, listening, and pronunciation.	<i>Oct 2023 - Aug 2024</i>

WORK EXPERIENCE

Data Scientist <i>TapSage, London, United Kingdom</i> Developing and implementing generative AI solutions, with a focus on conversational AI, RAG systems, and multi-agent frameworks.	<i>Jul 2024 - Present</i>
---	---------------------------

SKILLS

Languages:	Azerbaijani, Persian: Native English: IELTS: 8 (L: 8.5, R: 8.5, W: 7.5, S: 7.5), Turkish: Intermediate
Programming Languages:	Python, C, C++, T-SQL, R, Matlab, Node.js, PHP
Machine Learning and NLP Libraries:	PyTorch, scikit-learn, NumPy, Pandas, spaCy, NLTK, Hugging Face
Database Management:	SQL (MS SQL, SQLite), NoSQL (MongoDB)
Development and Technical Tools:	Colab, Flask, Qt, Express.js, Git, L ^A T _E X
Operating Systems:	Windows, Linux, macOS

CERTIFICATIONS

Generative AI with Large Language Models Coursera, DeepLearning.AI, Certification Link	<i>Nov 2023</i>
IELTS Teacher Training Course (TTC) Shahid Beheshti University, Tehran, Iran, Certification Link	<i>Oct 2023 - Nov 2023</i>
Ask Questions to Make Data-Driven Decisions Coursera, Google Career Certificates, Certification Link	<i>Mar 2023 - Apr 2023</i>
Foundations: Data, Data, Everywhere Coursera, Google Career Certificates, Certification Link	<i>Feb 2023</i>

REFERENCES

Dr. Ehsaneddin Asgari Scientist Qatar Computing Research Institute (QCRI) asgari@berkeley.edu	Dr. Hassan Sajjad Associate Professor Department of Computer Science, Dalhousie University HSajjad@dal.ca
Dr. Mohammad Hossein Rohban Assistant Professor Department of Computer Engineering, Sharif University of Technology rohban@sharif.edu	Dr. Mehran Safayani Associate Professor Department of Electrical and Computer Engineering, Isfahan University of Technology safayani@iut.ac.ir