Ali (Seyedali) Mohammadi

CONTACT INFORMATION

m294@umbc.edu | Personal Page | Google Scholar | Linkedin

EDUCATION

Ph.D • Computer Science (Expected Graduation: Spring/Summer 2027)
USA • University of Maryland, Baltimore County (UMBC) (2021 Aug – Present, GPA:3.81)
Thesis: Explainable Language Models. Advisor: Prof. Manas Gaur, Co-advisor: Prof. Frank Ferraro.

RESEARCH INTEREST

Natural Language Processing • Machine Learning • Explainability • Robustness • AI for Health & Wellness

EXPERIENCES

Infinitus Systems, Inc. — Internship • San Francisco, CA (Summer 2025)
– Built *LingVarBench* (EACL 2026), generated 10k+ HIPAA-compliant transcripts, and improved NER by up to 12%.

Research Assistant, UMBC • (2023 May – Present)
– Lead author of "Experiments or Outcomes? Probing Scientific Feasibility in LLMs", Submitted to ACL 2026.

– Lead author of an EMNLP 2025 (Main) study on LLM receptivity to label definitions, introducing definition-permutation tests and "knowledge conflict" analysis.

– Lead author of WellDunn, a benchmark and analysis framework on the robustness and explainability of Large Language Models in identifying wellness dimensions, Published at EMNLP BlackboxNLP 2024.

– Lead author (equal-contribution first author) of "Can LLMs Obfuscate Code?", a systematic study of LLM-generated assembly-code obfuscation, Published at AAAI 2025.

– Conduct research on enhancing the reliability, interpretability, and safety of LLMs through NeuroSymbolic reasoning, retrieval-augmented generation, and knowledge graph integration.

– Co-authored REASONS, a benchmark for retrieval and automated citation of scientific sentences (Arxiv 2025).

University of Maryland, Baltimore County • Graduate Teaching Assistant (2021 Aug – 2023 May)
– Machine Learning, Data Structure

PUBLICATIONS

Do LLMs Adhere to Label Definitions? Examining Their Receptivity to External Label Definitions
Seyedali Mohammadi, Bhaskara Hanuma Vedula, Hemank Lamba, Edward Raff, Ponnurangam Kumaraguru, Francis Ferraro, Manas Gaur **[EMNLP 2025 (Main)]**

Can LLMs Obfuscate Code? A Systematic Analysis of Large Language Models into Assembly Code Obfuscation
Seyedreza Mohseni*, Seyedali Mohammadi*, Deepa Tilwani, Yash Saxena, Gerald Ketu Ndawula, Sriram Vema, Edward Raff, Manas Gaur (*equal contribution) **[AAAI 2025]**

Benchmarking LLMs on Entity Recognitions and Linguistic Verbalization Patterns in Phone-Call Transcripts
Seyedali Mohammadi*, Manas Paldhe*, Amit Chhabra, Youngseo Son, Vishal Seshagiri (*equal contribution) *(Conducted during Internship at Infinitus Systems, Inc.)* **[EACL 2026 (To appear)]**

WellDunn: On the Robustness and Explainability of Language Models and Large Language Models in Identifying Wellness Dimensions
Seyedali Mohammadi, Edward Raff, Jinendra Malekar, Vedant Palit, Francis Ferraro, Manas Gaur **[EMNLP 2024 (BlackboxNLP)]**

Experiments or Outcomes? Probing Scientific Feasibility in Large Language Models
Seyedali Mohammadi, Manas Gaur, Francis Ferraro **[Submitted to ACL 2026]**

Attribution in Scientific Literature: New Benchmark and Methods
Deepa Tilwani, Yash Saxena, Seyedali Mohammadi, Edward Raff, Amit Sheth, Srinivasan Parthasarathy, Manas Gaur **[arXiv 2024]**

BOOK CHAPTER

IoT-Based Preventive Mental Health Using Knowledge Graphs and Standards for Better Well-Being
Amelie Gyrard, Seyedali Mohammadi, Manas Gaur, Antonio Kung. *Smart Technologies for SDGs: Good Health & Well-Being* (eds. A. Jose Anand, S. Krishnan), Routledge/T&F, 2026. **[Link]**

CERTIFICATION (SKILLS)

• **Python for Everybody** (Univ. of Michigan, Coursera):
Getting Started (100%), Data Structures (98.4%), Web Data (97.4%), Databases (98.1%), Capstone (96.2%).

• **Deep Learning Specialization** (DeepLearning.AI, Coursera):
Neural Networks & Deep Learning (100%), Improving DNNs (100%), CNNs (99.5%), Sequence Models (99%), Structuring ML Projects (96.7%).

SERVICES

Reviewer: Computer Applications in Engineering Education (Wiley, 2020); ACM Transactions on Computing for Healthcare; IEEE Intelligent Systems (2024); AAAI ’23, ’24, ’26; EMNLP ’24.

Program Committee Member: AAAI 2026 (incl. AI Alignment Track); CySoc @ The Web Conf 2023; KIL @ SIGKDD 2023–2024; KG-STAR @ CIKM 2024.