

SINA BAGHERI NEZHAD

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EDUCATION

PhD in Computer Science (in progress) <i>Portland State University</i>	Sep 2022 – Dec 2025 (anticipated)
Masters in Computer Engineering - Artificial Intelligence <i>Iran University of Science and Technology</i>	Sep 2019 – Dec 2021
Masters in Technology Management <i>University of Tehran</i>	Feb 2014 – Feb 2017
Bachelor in Industrial Engineering <i>Karaj Azad University</i>	Sep 2007 – Jul 2012

PROFESSIONAL EXPERIENCE

Graduate Research Assistant <i>Portland State University</i> <ul style="list-style-type: none">Investigate multilingual model scaling impacts on both seen and unseen languages.Research fairness in multilingual QA and summarization, ensuring equitable model performance.Develop fair clustering algorithms, contributing to novel approximation solutions.	Aug 2023 - Now
Graduate Teaching Assistant <i>Portland State University</i> <ul style="list-style-type: none">TA for Ethics in AI and Discrete Structures, supporting course delivery and student learning.	Sep 2022 - Now
Head of Software Development <i>Basir Andishan Bina Tadbir</i> <ul style="list-style-type: none">Introduced agile workflows and code review processes, improving efficiency and code quality.Configured and optimized Jira, Bitbucket, and Confluence for streamlined project management.Mentored team members on best practices, increasing overall productivity and collaboration.	Sep 2021 - Aug 2022
Manager and Founder <i>ElectroSadaf</i> <ul style="list-style-type: none">Expanded market share by targeting underserved demographics, driving sustained revenue growth.Implemented cost management and differentiation strategies, discovering “blue ocean” opportunities.Built strong customer relationships, enhancing long-term client retention.	Apr 2012 - Mar 2022
Researcher <i>Data mining lab @ Iran University of Science and Technology</i> <ul style="list-style-type: none">Developed multilingual retrieval methods for Arabic-Persian corpora using Elasticsearch.Implemented search suggestion techniques leveraging user behavior patterns.	Sep 2020 - Apr 2021
Graduate Teaching Assistant <i>Iran Univeristy of Science and Technology</i> <ul style="list-style-type: none">TA in Neural Networks, assisting with lab sessions and student evaluations.	Sep 2020 - Feb 2021
Earlier Teaching Roles <i>Various Institutions</i> <ul style="list-style-type: none">Supported courses in Non-parametric Statistics, Operations Research, and Engineering Statistics.	2010 - 2017
Planning and Project Control Expert <i>GS1 Iran</i> <ul style="list-style-type: none">Analyzed and controlled development of solutions following international GS1 standards.	Apr 2016 - Jul 2016

PUBLICATIONS

Enhancing Large Language Models with Neurosymbolic Reasoning for Multilingual Tasks Sina Bagheri Nezhad and Ameeta Agrawal The 19th Conference on Neurosymbolic Learning and Reasoning (NeSy 2025)	2025
Polynomial-Time Constant-Approximation for Fair Sum-of-Radii Clustering Sina Bagheri Nezhad, Sayan Bandyapadhyay and Tianzhi Chen arXiv preprint arXiv:2504.14683	2025
CROSS: Analyzing the Trade-offs in Long-Context Cross-lingual Retrieval Sina Bagheri Nezhad and Ameeta Agrawal The Workshop on Foundation Models in the Wild @ ICLR 2025	2025
Fair Summarization: Bridging Quality and Diversity in Extractive Summaries	2025

Sina Bagheri Nezhad, Sayan Bandyapadhyay and Ameeta Agrawal Presented at Algorithmic Fairness through the Lens of Metrics and Evaluation @ NeurIPS 2024 Accepted for publication at The 3rd Workshop on Cross-Cultural Considerations in NLP @ NAACL 2025	
The Impact of Model Scaling on Seen and Unseen Language Performance Rhitabrat Pokharel, Sina Bagheri Nezhad, Ameeta Agrawal and Suresh Singh The First Workshop on Scalable and Efficient Artificial Intelligence Systems (SEAS) @ AAAI 2025	2025
Beyond Data Quantity: Key Factors Driving Performance in Multilingual Language Models Sina Bagheri Nezhad, Ameeta Agrawal and Rhitabrat Pokharel The First Workshop on Language Models for Low-Resource Languages @ COLING 2025	2025
Evaluating Multilingual Long-Context Models for Retrieval and Reasoning Ameeta Agrawal, Andy Dang, Sina Bagheri Nezhad, Rhitabrat Pokharel and Russell Scheinberg The 4th Multilingual Representation Learning Workshop @ EMNLP 2024	2024
What Drives Performance in Multilingual Language Models? Sina Bagheri Nezhad and Ameeta Agrawal The Eleventh Workshop on NLP for Similar Languages, Varieties and Dialects @ NAACL 2024	2024
Exploring the Maze of Multilingual Modeling Sina Bagheri Nezhad and Ameeta Agrawal arXiv preprint arXiv:2310.05404	2023
Smoking prevalence in Covid-19 patients Sina Bagheri-Nezhad, Nasser Mozayani, Elham Abdi, Setareh Rostami arXiv preprint arXiv:2107.13599	2021
Investigation of the smoking prevalence among critically ill patients with COVID-19 Sina Bagheri-Nezhad, Elham Abdi, Nasser Mozayani, Marzieh Mehrafza Journal of Control 14 (5), 33-37	2021

PROFESSIONAL INVOLVEMENT

- Reviewer: IJCNN 2025, Computational Intelligence, COLING 2024, CALDAM 2024, and other conferences.
- PC Member: SustaiNLP @ ACL 2023

CERTIFICATES

- Deep Learning Specialization (deeplearning.ai)
- Reinforcement Learning Specialization (University of Alberta & amii)
- TensorFlow Developer Professional Certificate (deeplearning.ai)

TECHNICAL & COMMUNICATION SKILLS

- Programming: Python
- NLP & ML Libraries: PyTorch, TensorFlow, Hugging Face, Scikit-learn
- Data Analysis: Numpy, Pandas, SciPy, Matplotlib, Plotly
- Tools: Git, Jira, Bitbucket, Confluence
- Languages: English, Persian