

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>	Aug 2023 - Now
<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.	
Graduate Teaching Assistant <i>Portland State University</i>	Sep 2022 - Now
<ul style="list-style-type: none">TA for Ethics in AI and Discrete Structures, supporting course delivery and student learning.	
Head of Software Development <i>Basir Andishan Bina Tadbir</i>	Sep 2021 - Aug 2022
<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.	
Manager and Founder <i>ElectroSadaf</i>	Apr 2012 - Mar 2022
<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.	
Researcher <i>Data mining lab @ Iran University of Science and Technology</i>	Sep 2020 - Apr 2021
<ul style="list-style-type: none">Developed multilingual retrieval methods for Arabic-Persian corpora using Elasticsearch.Implemented search suggestion techniques leveraging user behavior patterns.	
Graduate Teaching Assistant <i>Iran University of Science and Technology</i>	Sep 2020 - Feb 2021
<ul style="list-style-type: none">TA in Neural Networks, assisting with lab sessions and student evaluations.	
Earlier Teaching Roles <i>Various Institutions</i>	2010 - 2017
<ul style="list-style-type: none">Supported courses in Non-parametric Statistics, Operations Research, and Engineering Statistics.	
Planning and Project Control Expert <i>GS1 Iran</i>	Apr 2016 - Jul 2016
<ul style="list-style-type: none">Analyzed and controlled development of solutions following international GS1 standards.	

PUBLICATIONS

Constant-Approximation Algorithms for Fair Sum-of-Radii Clustering Sina Bagheri Nezhad, Sayan Bandyapadhyay and Tianzhi Chen	Under-review
Investigating the Impact of Model Scaling on Seen and Unseen Language Performance Rhitabrat Pokharel, Sina Bagheri Nezhad, Ameeta Agrawal and Suresh Singh	Under-review
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
Fair Summarization: Bridging Quality and Diversity in Extractive Summaries Sina Bagheri Nezhad, Sayan Bandyapadhyay and Ameeta Agrawal	2024

Algorithmic Fairness through the Lens of Metrics and Evaluation @ NeurIPS 2024

Evaluating Multilingual Long-Context Models for Retrieval and Reasoning 2024

Ameeta Agrawal, Andy Dang, Sina Bagheri Nezhad, Rhitabrat Pokharel and Russell Scheinberg

The 4th Multilingual Representation Learning (MRL) Workshop @ EMNLP 2024

What Drives Performance in Multilingual Language Models? 2024

Sina Bagheri Nezhad and Ameeta Agrawal

The Eleventh Workshop on NLP for Similar Languages, Varieties and Dialects (VarDial 2024) @ NAACL 2024

Exploring the Maze of Multilingual Modeling 2023

Sina Bagheri Nezhad and Ameeta Agrawal

arXiv preprint arXiv:2310.05404

Smoking prevalence in Covid-19 patients 2021

Sina Bagheri-Nezhad, Nasser Mozayani, Elham Abdi, Setareh Rostami

arXiv preprint arXiv:2107.13599

Investigation of the smoking prevalence among critically ill patients with COVID-19 2021

Sina Bagheri-Nezhad, Elham Abdi, Nasser Mozayani, Marzieh Mehrafza

Journal of Control 14 (5), 33-37

PROFESSIONAL INVOLVEMENT

- Reviewer: Computational Intelligence, EMNLP 2023, 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