

ALIREZA SALKHORDEH ZIABARI

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RESEARCH INTEREST

Natural Language Processing (NLP), Computational Social Science, Robustness and Fairness in NLP.

EDUCATION

Ph.D. in Computer Science, University of Southern California, Los Angeles, CA, U.S. 2021 - Expected 2026
PI: **Morteza Dehghani** Member of Morality and Language Lab

M.Sc. in Computer Science, University of Southern California, Los Angeles, CA, U.S. 2021 - 2023
Related Courses: Advanced Natural Language Processing, Dynamics Of Representation Learning, Advanced Analysis of Algorithms, Multi-level Modeling, Linear System Theory, Random Processes, Probability and Statistics.

B.Sc. in Computer Engineering, Sharif University of Technology, Tehran, Iran. 2016 - 2020
PI: **Mohammad Hossein Rohban**, GPA: 3.74/4

PUBLICATIONS

- [1] Omrani, A., **Ziabari, A.**, Yu, C., Golazizian, P., Kennedy, B., Atari, M., Ji, Heng., Dehghani, M. (2023) [Social-Group-Agnostic Bias Mitigation via the Stereotype Content Model](#) — [ACL 2023, Nominated for Best Paper Award \(1.6% of accepted papers\)](#).
- [2] Omrani, A.*, **Ziabari, A.***, Golazizian, P., Sorensen, J., Dehghani, M. [Towards a Unified Framework for Adaptable Problematic Content Detection via Continual Learning](#) — Under review at NAACL2024.
- [3] **Ziabari, A.**, Omrani, A., Golazizian, P., Hejabi P., Kennedy, B., Dehghani, M. [Reinforced Multiple Instance Selection for Speaker Attribute Prediction](#) — Under review at NAACL2024.
- [4] Golazizian, P., Omrani, A., **Ziabari, A.**, Dehghani, M. [Cost-Efficient Subjective Task Annotation and Modeling through Few-Shot Annotator Adaptation](#) — Under review at ACL2024.
- [5] Omrani, A., Karimi-Malekabadi, F., Rahmati, E., **Ziabari, A.**, Sorensen, J., Dehghani, M. [Cultural Diversity Enhances Offensive Language Detection in Multilingual Model](#) - Under review at ACL2024.
- [6] Trager, J.*, **Ziabari, A.***, Davani, A.M., Golazizian, P., Karimi-Malekabadi, F., Omrani, A., Li, Z., Kennedy, B., Karl Reimer, N., Reyes, M., Cheng, K., Wei, M., Merrifield, C., Khosravi, A., Alvarez, E., Dehghani, M. [The Moral Foundations Reddit Corpus](#) — In Preparation.

EXPERIENCE

Research Assistant at University of Southern California May. 2022 - Present

- PI: Morteza Dehghani. Member of Morality and Language lab.
- My research includes designing and testing language systems that help solve social issues.

Research Assistant at University of Southern California May. 2021 - May. 2022

- PI: Maryam Shanechi. Member of Neural Systems Engineering and Information Processing Lab.
- Designed self-supervised transformer model for mood classification.

Machine Learning Engineer at Tapsi Oct. 2020 - May. 2021

- Led online traffic estimation projects, improving to 5% average ETA compared to Google Maps and Waze.
- Deployed a time-series autoencoder pipeline to estimate online traffic using drivers' locations with Pytorch.

Machine Learning Intern at Fanap Advanced Technology Lab (Zlab) July 2020 - Oct. 2020

- Built Object Detection tool, which led to intelligent grocery store carts.

- Maintained a dataset and trained a Yolo-v5 with Tensorflow.

Research Assistant at Sharif University of Technology

Sept. 2018 - Aug. 2020

- PI: Mohammad Hossein Rohban. Member of Robust and Interpretable Machine Learning Lab
- For my bachelor thesis, I implemented a Meta-Learning algorithm for anomaly detection in images by Pytorch.

SELECTED SKILLS

Programming Language: Python, R, Java, C++, C, MatLab, SQL.

Software: Pytorch, Tensorflow, Keras, Transformers, pySpark, NLTK, Pandas, Numpy, Scikit-learn, bash.

Statistics: Multi-level Modeling

Languages: English, Persian

HONORS AND AWARDS

Best Poster Award, Society for Personality and Social Psychology (SPSP)	2023
Ranked 9th among Computer Engineering Students in Sharif University of Technology.	2020
Ranked 213th among over 200,000 participants in the Nationwide University Entrance Exam.	2016
Member of the National Organization for Development of Exceptional Talents.	2009