

Akbar Karimi

✉ ak.karimi84@gmail.com
📄 [akkarimi.github.io](https://github.com/akkarimi)

Professional Career

- 2023 - Present **Postdoctoral Researcher**, University of Bonn, Germany.
Advisor: Prof. Lucie Flek.
- 2022 - 2023 **Postdoctoral Researcher**, University of Marburg, Germany.
Advisor: Prof. Lucie Flek.
- 2018 - 2022 **Ph.D. in Information Technologies**, University of Parma, Italy.
Thesis: Text Analysis with Deep Learning and Data Augmentation.
Advisor: Prof. Andrea Prati.
- 2014 - 2017 **M.Sc. in Computer Science**, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran.
Thesis: Parallel Sentence Extraction from Comparable Corpora Using Statistical Machine Translation.
Advisors: Dr. Ebrahim Ansari and Dr. Bahram Sadeghi Bigham.
- 2008 - 2012 **B.Sc. in Computer Engineering**, Azad University of Zanjan, Iran.

Teaching & Non-Scientific Experiences

- 2024 - **Scientific Coordinator**, CAISA & Lamarr Institute, University of Bonn, Germany.
- 2024 **Lecturer**, *Dialog Systems*, University of Bonn, Germany.
- 2023 **Co-lecturer**, *Introduction to NLP*, University of Marburg, Germany.
- 2022 **Co-lecturer**, *Dialog Systems*, University of Marburg, Germany.
- 2018 **Lecturer**, *Operating Systems Laboratory*, IASBS, Zanjan, Iran.
- 2009 - 2010 **Teaching Assistant**, *Differential Equations*, Azad University of Zanjan, Iran.
- 2009 **Teaching Assistant**, *Discrete Math*, Azad University of Zanjan, Zanjan, Iran.

Academic Services

Reviewer ACL, TPAMI, WASSA, HuCLLM, TAFFC, NEPL, TNNLS, AI Communications.

Awards & Honors

- 2018 **Ph.D. Scholarship** funded by the University of Parma and Adidas AG.
- 2017 **Ranked 24th** among 1249 participants in the National PhD Examination, Iran.
- 2014 **Ranked 43rd** among ≥ 3000 participants in the National Master's Examination, Iran.

Publications & Preprints

- 1 Abedin, Zain UI, Shahzeb Qamar, Lucie Flek, and **Akbar Karimi**. *ArithmAttack: Evaluating Robustness of LLMs to Noisy Context in Math Problem Solving*. arXiv preprint arXiv:2501.08203 (2025)..
- 2 Arora, Pulkit, **Akbar Karimi**, and Lucie Flek. *Exploring Robustness of LLMs to Sociodemographically-Conditioned Paraphrasing*. arXiv preprint arXiv:2501.08276 (2025)..
- 3 Saala, Timo, Lucie Flek, Alexander Jung, **Akbar Karimi**, Alexander Schmidt, Matthias Schott, Philipp Soldin, and Christopher Wiebusch. *Enforcing Fundamental Relations via Adversarial Attacks on Input Parameter Correlations*. arXiv preprint arXiv:2501.05588 (2025)..

- 4 Aliakbarzadeh, Amirhossein, Lucie Flek and **Akbar Karimi**. *Exploring Robustness of Multilingual LLMs on Real-World Noisy Data*. WinNLP at EMNLP 2024.
- 5 Nie, Shangrui, Michael Fromm, Charles Welch, Rebekka Görges, **Akbar Karimi**, Joan Plepi, Nazia Afsan Mowmita, Nicolas Flores-Herr, Mehdi Ali, and Lucie Flek. *Do Multilingual Large Language Models Mitigate Stereotype Bias?* C3NLP Workshop at ACL 2024.
- 6 **Karimi, Akbar**, and Lucie Flek. *CAISA at SemEval-2023 Task 8: Counterfactual Data Augmentation for Mitigating Class Imbalance in Causal Claim Identification*. SemEval at ACL 2023.
- 7 **Karimi, Akbar**, and Lucie Flek. *Caisa@ smm4h'22: Robust Cross-Lingual Detection of Disease Mentions on Social Media with Adversarial Methods*. SMM4H 2022.
- 8 Luna De Bruyne, **Akbar Karimi**, Orphée De Clercq, Andrea Prati, and Véronique Hoste. *Aspect-Based Emotion Analysis and Multimodal Coreference: A Case Study of Customer Comments on Adidas Instagram Posts*. LREC Conference 2022.
- 9 Leonardo Rossi, **Akbar Karimi**, and Andrea Prati. *Improving Localization for Semi-Supervised Object Detection*. ICIAP Journal 2022.
- 10 Leonardo Rossi, **Akbar Karimi**, and Andrea Prati. *Self-Balanced R-CNN for Instance Segmentation*. JVCIR Journal 2022.
- 11 **Karimi, Akbar**, Leonardo Rossi, and Andrea Prati. *AEDA: An Easier Data Augmentation Technique for Text Classification*. EMNLP Conference Findings 2021.
- 12 **Karimi, Akbar**, Leonardo Rossi, and Andrea Prati. *UniParma at SemEval-2021 Task 5: Toxic Spans Detection Using CharacterBERT and Bag-of-Words Model*. SemEval at ACL-IJCNLP 2021.
- 13 Rossi, Leonardo, **Akbar Karimi**, and Andrea Prati. *Recursively Refined R-CNN: Instance Segmentation with Self-Rol Rebalancing*. CAIP Conference 2021).
- 14 **Karimi, Akbar**, Leonardo Rossi, and Andrea Prati. *Improving BERT Performance for Aspect-Based Sentiment Analysis*. ICNLSP Conference 2021.
- 15 Rossi, Leonardo, **Akbar Karimi**, and Andrea Prati. *A novel region of interest extraction layer for instance segmentation*. ICPR IEEE Conference 2021.
- 16 **Karimi, Akbar**, Leonardo Rossi, and Andrea Prati. *Adversarial training for aspect-based sentiment analysis with bert*. ICPR IEEE Conference 2021.
- 17 **Karimi, Akbar**, Ebrahim Ansari, and Bahram Sadeghi Bigham. *Extracting an English-Persian Parallel Corpus from Comparable Corpora*. LREC Conference 2018.