FARHAD NOORALAHZADEH

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Summary

"I am a Lecturer (Dozent) at *Zurich University of Applied Science (ZHAW)* and a senior researcher at the *University of Zurich (UZH)* with more than 12 years of experience in the field of Natural Language Processing and Machine Learning applications. I completed my Ph.D. degree at the University of Oslo in the Language Technology group at the SIRIUS center on *Low-Resource Adaptation of Neural NLP Models*. My current research concentrates on the following areas: **Multimodal Multilingual Data Understanding**, **Multimodal Multilingual Data Exploration**, **Multi-Agent Collaboration via LLMs,** and **Medical AI Assistant tools**. Before pursuing a Ph.D., I worked as a research engineer at the *INRIA Sophia-Antipolis* research center in the WIMMICS team. I also spent a year in the Parsing and Semantics Group at the *Xerox Research Center Europe* in Grenoble, which is now Naver Labs Europe. I earned my master's degree from the *Erasmus Mundus Master Program in Data Mining and Knowledge Management.* Additionally, I have a bachelor's degree in Industrial Engineering with a focus on system analysis and planning from the Iran University of Science and Technology (IUST). "

Education

- **University of Zurich, Continuing Education in University Teaching and Learning**—Zurich-Switzerland, September 2023- July 2024
  UZH Continuing Education, Teaching Skills – Systematic Development of Teaching Competence: 7 ECTS

- **University of Copenhagen**—Copenhagen, Denmark
  May 2019- August 2019
  PhD Research visit, Natural Language Understanding Group (CopNLU), Computer Science Department

- **University of Oslo** —Oslo-Norway
  May 2016- June 2020
  PhD, Computer Science, Language Technology Group- Centre for Scalable Data Access (SIRIUS)
  -Low-Resource Adaptation of Neural NLP Models

- **Université Lumière Lyon 2** —Lyon-France
  Sep 2011-July 2013
  MSc, Computer Science, Data Mining and Knowledge Management
  Erasmus Mundus programe

Related Professional Experience

- **Institute for Computer Science, Zurich University of Applied Sciences**—ZHAW
  Lecturer (Dozent): August 2024 - Present
  Researcher Associate II (80%): Nov 2022 - July 2024
  *- **Co-Lead: WP2 and WP3** in Data Discovery Platform with Generalized Exploratory, Management, and Search Capabilities- EU-funded DataGEMS*
  *- **PI:** Radiology AI-Driven Clinical Decision-making with Multi-modal Exploration*
  *- **Co-Lead** Multimodal Multilingual Data Exploration via Language Agents(Agent-base AI, LangGraph, ReAct, LLM Compiler)*
  *- **PI:** Reliable Multi-lingual and Cross-lingual Open Data Exploration in Natural Language*
  *- **Co-Lead:** NODE4StatBot.swiss – Application of new algorithms for automatic natural language translation into database query language SQL (Text-to-SQL)*

- **Krauthammer Lab, University of Zurich & University Hospital Zurich**—UZH
  Senior Researcher (NLP group leader) (20%): Nov 2022 - present
  - ***Co-Lead***: *Swiss-AI initiative (Foundation model for health), Multimodal Large Language Model for Radiology, 3D vision language model For Radiology*
  - ***Co-Lead*** *Multimodal Multilingual Medical AI Assistant Tools (Agent-based AI, LangGraph, RL (GRPO)*
  - ***PI:*** *Trustworthy Medical AI Assistant Tools for Radiology*
  - ***Co-Lead:*** *Radiology Education with AI-driven digital platforms*

- **Department of Computational Linguistics , University of Zurich**—CL-UZH
  External Lecturer: Feb 2023 - Feb 2024
  - ***Lecturer:*** *NLP in Medicine*
  - ***Lecturer:*** *Multimodal Multilingual NLP*

- **Department of Computational Linguistics , University of Zurich**—CL-UZH
  Postdoctoral Fellow: Nov 2021 - Oct 2022
  - *Cross-lingual Visual Question Answering and Visual Understating*

- **Krauthammer Lab, University of Zurich & University Hospital Zurich**—UZH
  Research Assistant / Postdoctoral Fellow: Jun 2020 - Oct 2022
  - *Radiology Report Generation using Language Model*

- **Institut national de recherche en informatique et en automatique- Sophia Antipolis**—INRIA
  Research Engineer: Feb 2015-May 2016
  - *SMILK: Social Media Intelligence and Linked Knowledge*

- **XEROX Research Centre Europe. Grenoble- France**—XRCE
  Research and Development Engineer: Oct 2013-April 2014
  - *Information Extraction From Financial Documents*

- **XEROX Research Centre Europe. Grenoble - France**—XRCE
  Intern: March 2013-Sep 2013
  - *Semantic Analysis of Social Media Content*

Grants

Acquired As PI

- **Funding Scheme**: DIZH
  Call: 4th Project Call: 2024
  Project: RADICAL – Radiology AI-Driven Clinical Decision-making with Multi-modal Exploration
  Amount: CHF 600,000
  Role: PI together with Prof.Michael Krauthammer

- **Funding Scheme**: DIZH
  Call: Rapid Action Call 2024
  Project: https://www.dizh.uzh.ch/en/2024/06/18/trust-rad-2/TRUST-RAD: Trustworthy Medical AI Assistant Tools for Radiology
  Amount: CHF 150,000
  Role: PI

- **Funding Scheme**: Hasler Foundation
  Call: Responsible AI Program 2024
  Project: MuLi: Reliable Multi-lingual and Cross-lingual Open Data Exploration in Natural Language
  Amount: CHF 48,000
  Role: PI

Contributed to Grant Proposal

- **Funding Scheme**: Swiss National Science Foundation
  Call: HORIZON.1.3 - Research infrastructures 2024
  Project: https://nlp.idsia.ch/PROJECTS/M2P2/m2p2.htmlM2P2: Medical, Multilingual and Privacy-Preserving Natural Language Processing in the clinical domain
  Amount: CHF 1'070'390
  Role: Co-Project lead with Prof.Michael Krauthammer

- **Funding Scheme**: Horizon Europe
  Call: Project Call 2024
  Project: https://www.zhaw.ch/en/research/project/76343DataGEMS - Data Discovery Platform with Generalized Exploratory, Management, and Search Capabilities
  Amount: EUR 8'160'210
  Role: Co-Project lead with Prof.Kurt Stockinger

Fellowship and Awards

- **DAAD, 2021** Postdoctoral Networking Tour in Artificial Intelligence- Medicine (https://www.daad.de/en/the-daad/postdocnet/fellows/fellows/farhadPostdoc-NeT-AI -2021)

- **Ranked 3rd** in SemEval 2018 Task 7 on Semantic Relation Extraction and Classification in Scientific Papers

- **UiO Energy** Fund, 2018: International mobility and collaboration fund

- **4-years PhD scholarship, 2016**: SIRIUS, SFI Centre for Research-based Innovation, The Research Council of Norway

- 1st prize award for the internship project: XEROX Research Centre Europe, 2013

Teaching Activities & Supervision

- **NLP in Medicine**, Autumn semester 2023, Seminar Course: Bachelors & Masters

- **Multimodal Multilingual NLP** , Spring semester 2023, Seminar Course: Masters

- **NLP in Medicine**, Spring semester 2022, Seminar Course: Bachelors & Masters

- **Information Engineering 2**, Spring semester 2025, Bachelors

- **Supervised 12 Bachelor's and Master's theses/projects in AI, NLP, and Medical Informatics across UZH, ZHAW (MAS), ETH, and University of Bern (2022–2025).**

Talks

- Kyoto Hospital University (Seminar), **Agentic LLM-based decision support in radiology and oncology**, April 2025

- AMLD 2025, AI in Clinical Care, **Multimodal Radiology AI Assistant via Foundation Models**, February 2025

- Data Innovation Alliance, NLP Expert Meeting, Agents in 2025 : **Explainable Multi-Modal Data Exploration**, February 2025

- Seminar Series in Artificial Intelligence and Innovation in Diagnostic Imaging (University Hospital Zurich): **Medica AI Assistant Tools in Radiology**, December 2024

- Language & Medicine Interdisciplinary Research Colloquium, **Multimodal Intelligent Medical Assistant (MIMA) - a visionary outlook!**, October 2024

- 5th LiZZ-Gespräch, Zurich Center for Linguistics: **Panel Discussion on Multimodality**, October 2024

Program committee/Area chair

I am the action editor for ACL Rolling Review. I regularly serve as a reviewer and action editor at main conferences in the field of Computational Linguistics and Natural Language processing, most recently as action editor for ACL and EMNLP 2024 and 2025.

- **COLM:** 2025, **AAAI:** 2025, 2023, **EMNLP:** 2025, 2024 (AC),2021, 2020, 2019, **ACL:** 2025, 2024 (AC), 2020, **NAACL:** 2021, **EACL:** 2021, **LREC:** 2020, **NoDaLiDa:** 2021, 2020, 2019