Mohanna Hoveyda

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I am a second-year PhD candidate at Radboud University, specializing in *Knowledge-Enriched conversational AI*, co-advised by Professors *Arjen P. de Vries*, *Maarten de Rijke*, and *Faegheh Hasibi*. My research interests encompass 1) Integrating knowledge bases with conversational systems for enhanced grounding 2) Employing neuro-symbolic solutions for reasoning with LLMs, and 3) Developing adaptive systems that automatically select the best answering strategies—be it direct response, retrieval, or reasoning—based on user input characteristics.

EDUCATION

PhD, Radboud University, iCIS — Nijmegen, Netherlands
Knowledge-Enriched Conversational AI — *February 2023*

MSc, University of Tehran, FNST — Tehran, Iran
Computational Linguistics — *September 2020–January 2023*

Bachelor, University of Tehran, ECE & FFLL — Tehran, Iran
Computer Engineering (Minor) — *2018–2020*
French Language and Literature (Major) — *2016–2020*

Highschool, National Organization for Development of Exceptional Talents (NODET) — Karaj, Iran
Mathematics and Physics — *2012–2016*

RESEARCH

Adaptive Question Answering in a Society of LLMs — *ArXiv Preprint*
Co-Authors: *Arjen P. de Vries, Harrie Oosterhuis, Faegheh Hasibi, Maarten de Rijke*

Real-World Conversational Entity Linking Requires More Than Zero-Shots — *ACL 2024 Findings*
Co-Authors: *Arjen P. de Vries, Faegheh Hasibi, Maarten de Rijke*

Network Science-Based Structural Analysis of Semantic Representations — *Master's Thesis*
Supervisors: *Mostafa Salehi, Paulino Villas-Boas, Mahmood Bijankhan*

EXPERIENCE

Teaching Assistant, Information Retrieval — *2023*
Radboud University, Nijmegen, Netherlands

Teaching Assistant, Machine Learning for Natural Language Processing — *2022*
University of Tehran, Tehran, Iran

WORKSHOPS AND SCHOOLS

The European Summer School on Information Retrieval (ESSIR)
Amsterdam, Netherlands, University of Amsterdam — *July 2024*
Vienna, Austria, Technische Universität Wien — *August 2023*
High-Performance Computing (HPC) and Deep Learning Workshop — *August 2022*
Tehran, Iran, HPC Laboratory, Institute for Research in Fundamental Sciences (IPM)
Summer School of Intelligent Learning — *July 2019–August 2019*
Tehran, Iran, Institute for Research in Fundamental Sciences (IPM) and Sharif University of Technology
Autumn School of Mind and Brain — *November 2018*
Tehran, Iran, Cognitive Sciences and Technologies Council and The University of Tehran

AWARDS AND SCHOLARSHIPS

Ranked 6th in Computational Linguistics National Master's Entrance Exam — August 2020
Iran National Organization for Educational Testing
Scholarship for Computational Linguistics Master's Program — August 2020
Tehran, Iran, University of Tehran
2nd Prize for The Best Actress in The 4th Student Festival of Francophone Theater — May 2019
Tehran, Iran, Iranian Association of French Literature and Language (AILLF)
Scholarship for Bachelor of French Literature — August 2016
Tehran, Iran, University of Tehran

Skills

Languages: English (fluent), French (intermediate), Dutch (basic), Persian (native)
Programming: Python (Advanced), C (Intermediate), C++ (Intermediate), HTML (Basic), CSS (Basic)
Frameworks & Other Computing Skills: Natural Language Processing (NLTK, SPACY, Gensim, Huggingface), Deep Learning (Tensorflow, Cuda, Scikit-learn), Others (Networkx, Numpy, Pandas, Seaborn), Praat

References

Arjen P. de Vries   a.devries@cs.ru.nl
  Professor of Information Retrieval at Radboud University and Research Director of iCIS

Maarten de Rijke   m.derijke@uva.nl
  Professor of Artificial Intelligence and Information Retrieval at the University of Amsterdam

Faegheh Hasibi   f.hasibi@cs.ru.nl
  Assistant Professor of Information Retrieval at iCIS at Radboud University