

# Vahid Rahimzadeh

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 [LinkedIn](#) |  [GitHub](#)

Delft, Netherlands | Last Update: Dec 2025

## RESEARCH INTERESTS

Natural Language Processing, Language Technologies, Computational Social Science, Machine Behavior, Information Retrieval, AI Safety & Security, Personalized Agents, Cultural Competence in AI, Human-Centered AI, Social Networks

## EDUCATION

- **Delft University of Technology** [🌐] Oct. 2025 – Present  
Delft, Netherlands  
*Ph.D. in Artificial Intelligence*  
Working on the safe and responsible integration of AI (language technologies) in digital environments  
**Supervisors:** Savvas Zannettou, Yury Zhauniarovich  
**GPA:** 4.00/4.00 (18.5/20)
- **University of Tehran** [🌐] Sep. 2022 – Aug. 2025  
Tehran, Iran  
*M.Sc. in Information Technology Engineering*  
**Thesis:** User Behavior Modeling in Social Networks using LLMs  
**Supervisors:** Azadeh Shakery, Masoud Asadpour  
**GPA:** 4.00/4.00 (18.5/20)
- **Isfahan University of Technology** [🌐] Sep. 2016 – Sep. 2021  
Isfahan, Iran  
*B.Sc. in Mechatronics, Automation & Robotics*  
**Final Project:** Android App for Planar Dynamic Balance of Rotors using Real-time Accelerometer Data  
**GPA:** 3.11/4.00 (15.59/20)

## PUBLICATIONS

- "PolitiSky24: U.S. Politics Bluesky Dataset with User Stance Labels". Accepted at **EMNLP 2025, Findings**.  
P Rostami, **V Rahimzadeh**, A Adibi, A Shakery.
- "SYNTHIA: Synthetic Yet Naturally Tailored Human-Inspired PersonAs". Submitted to **ACL 2026**.  
**V Rahimzadeh\***, E Moosavi\*, MT Pilehvar, Y Yaghoobzadeh. \*equal contribution
- "PerCul: Story-Driven Cultural Evaluation of LLMs in Persian". Accepted at **NAACL 2025 main conference**.  
E Moosavi\*, **V Rahimzadeh\***, Y Yaghoobzadeh, A Shakery, MT Pilehvar. \*equal contribution
- "From Millions of Tweets to Actionable Insights: Leveraging LLMs for User Understanding". Accepted at **MisD@ICWSM 2025**.  
**V Rahimzadeh**, A Hamzehpour, A Shakery, M Asadpour.

## PROFESSIONAL EXPERIENCE

- **Researcher** Oct. 2024 – Oct. 2025  
Tehran, Iran  
*Tehran Institute for Advanced Studies (TeIAS) [🌐]*
  - Working in Large Language Models Lab under the supervision of **Mohammad Taher Pilehvar** & **Yadollah Yaghoobzadeh**
- **AI Engineer | LLM, LLMOps** Oct. 2023 – Oct. 2024  
Tehran, Iran  
*RamonAI, ModAI App [🌐]*
  - Maintaining the main GitLab Repository with 7+ people actively working on it
  - Implementing & Monitoring LLM based Real-time pipelines on Millions of data using scalable queuing, databases & monitoring systems like NATs, Redis, PostgreSQL, Prometheus, Grafana & Sentry
  - Scalable Deployment & Monitoring of LLMs using vLLM, TGI, LangFuse, Grafana & Sentry
  - Using & Fine-tuning Different LLMs & VLMs
  - Implementing RAG based Solutions based on LLMs & KBs & Milvus & complex chatbot back-ends using LangGraph
  - Involvement in complex semantic/lexical search & retrieval systems using ElasticSearch
- **Co-Founder, Software Engineer** Jun. 2019 – Oct. 2023  
Tehran, Iran  
*Qorfechi [🌐]*
  - Planned, designed & developed multiple world class standard websites using the latest technologies
  - Implementing AI based features in Dashboards

## LEADERSHIP EXPERIENCE

- **Supervised 2 Bachelor Students for Summer Internship** May 2025 – Sep. 2025 [🌐]  
*Large Language Models Lab, Tehran Institute for Advanced Studies (TeIAS)*
  - Supervised research projects with planned paper submission for ACL 2026
- **Advised an M.Sc. Student (Admitted Through Exceptional Talents Program)** Oct. 2024 – Sep. 2025 [🌐]  
*Intelligent Information Systems Lab, University of Tehran*
- **Mentored the first-ranked student of the B.Sc. Computer Engineering Class of 2025** Jun. 2024 – Oct. 2024 [🌐]  
*Intelligent Information Systems Lab, University of Tehran*
  - Covered NLP from basics to LLMs
  - Resulted in a submission to ECIR 2025 & subsequent research projects are in progress
- **Mentored 2 Interns focused on NLP** Jun. 2024 – Sep. 2024 [🌐]  
*ModAI & RamonAI*
  - Covered relevant NLP concepts from tokenization & embeddings to LLMs
  - Covered relevant Industry knowledge from python to API for AI products & Dockerized applications
  - They both landed jobs as junior NLP engineers in the company
  - One of them is maintaining the backend for a product & the other is in charge of APIs

## TEACHING EXPERIENCE

- **TA in Large Language Models** 2025  
*ECE @ University of Tehran, Yadollah Yaghoobzadeh, Mohammad Javad Dousti*
- **TA in Advanced Natural Language Processing** 2024–2025  
*CS @ University of Cardiff, Mohammad Taher Pilehvar*
  - Designined Hands-on Assignments on Fine-tuning and In Context Learning techniques in LLMs
- **Head TA in Advanced Data Mining** 2023–2025  
*ECE @ University of Tehran, Azadeh Shakery*
  - Implemented the course's website
  - Worked with a wonderful diverse team of 6 TAs
  - Coordinated 6 CAs, 3 Workshops & Paper presentation module for the course
- **TA in Intelligent Information Retrieval** 2023–2025  
*ECE @ University of Tehran, Dr Azadeh Shakery*
  - Designed a completely new final project for the course based on curation of relevancy dataset & implementing various retrieval algorithms & evaluations in the context of a conversational RAG system (2024)
  - Implemented the course website (2024)
  - Held workshops on fine-tuning BERT for classification for the first time (2023)
- **TA in Natural Language Processing** 2023  
*ECE @ University of Tehran, Heshaam Faili*
  - Implemented the course website
  - Changed the dialogue system & chatbot (Final Project) entirely from Rasa to LangGraph & LLM based approaches
  - Designed a 12 step carefully crafted CA based on cutting edge technologies & open source tools
  - Held a Workshop on the matter since the high quality relevant materials were not available on the Internet

## SELECTED PROJECTS

- **LLM based Medical Assistant Chatbot Using LangGraph** [YouTube][GitHub]  
*Tools: LLaMa 3 70B, FAISS, LangChain, Sentence Transformers*
  - Developed a chatbot system leveraging advanced language models for medical assistance
- **LLM Based Book Search System on Ketabrah Books** [GitHub]  
*Tools: BeautifulSoup, LangChain, ChromaDB, Sentence Transformers, Numpy*
  - Implemented a conversational book search system & evaluated retrieval using nDCG, P@K
- **Dynamic Benchmarking Logic Adaptable to Different LLMs, Prompts & Visualizations** [GitHub]  
*Tools: LangChain, Python, tqdm, Pandas,*
  - Conducted benchmarking of 32+ language models as part of the PerCul paper
- **Processing & Filtering of 6M+ Tweets** [GitHub]  
*Tools: PyTorch, Peft, Scikit Learn, Pandas, LanceDB*
  - Implemented tweet selection algorithms & scalable retrievers, clustering methods & semi-supervised fine-tuned BERT based classifier as a part of my second paper
- **Personalized Apply Agent** [GitHub]  
*Tools: CrewAI, LangGraph, LangChain, Milvus, Jina Embeddings*
  - A tool to organize and efficiently retrieve information for PhD apply of myself based on LLM based agents and pipelines

## SKILLS

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- **Soft Skills** Teamwork, Meeting Tight Deadlines
- **Programming Languages** Python, Javascript
- **Large Language Models** vLLM, LangChain, LangFuse, TGI, Unslloth, HF Trainer, PEFT, Datasets, TRL
- **Databases** ElasticSearch, Milvus, lanceDB, Redis, PostgreSQL
- **Pipeline & Monitoring Tools** NATs, Prometheus, Grafana, Portainer, Sentry
- **Tools & Misc** GitLab, JIRA, Docker Compose, Confluence
- **Machine Learning** PyTorch, Scikit Learn, evaluate
- **Retrieval** Sentence Transformers, Lexical Retrieval, Semantic Retrieval, ColBERT, BM25
- **Web Technologies** Laravel, VueJS, Swiper, Streamlit, Gradio
- **Additional Skills:** Code Reviewing, Repository Maintenance, Team Management

## HONORS & AWARDS

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Ranked 2nd in Nationwide Graduate Level University Entrance Test of Information Technology Engineering

2022

Ranked 6th in Nationwide Graduate Level University Entrance Test of Computer Engineering

2022

## LANGUAGES

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**Persian:** Native, **English:** IELTS Academic 8.5/9