Amirhossein Abaskohi *September 19, 2000*

Masters Student Majoring in Computer Science

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in amirhossein-abaskohi | 🌐 Google Scholar

Education

University Of British Columbia   Sept 2025 - Now

Ph.D in Computer Science

Department of Computer Science

- **Supervisor:** Giuseppe Carenini & Peter West

University Of British Columbia   Sept 2023 - August 2025

M.Sc in Computer Science

Department of Computer Science

- **GPA:** A+
- **Supervisor:** Giuseppe Carenini

University Of Tehran   Sept 2018 - Apr 2023

B.Sc in Computer Engineering   *Ranked top 10% in class*

Department of Electrical and Computer Engineering

- **CGPA:** 3.8/4 [Last Two Years GPA: 18.42 (4/4)]

Research Interests

- Multimodal Reasoning
- NLP for Common-sense Reasoning
- Explainble and Interpretable AI
- Long Document Understanding
- Deep Research
- Human Centered AI

Publications

CEMTM: Contextual Embedding-based Multimodal Topic Modeling   2025

Amirhossein Abaskohi, Amirhossein Abaskohi, Raymond Li, Chuyuan Li, Shafiq Joty, Giuseppe Carenini
EMNLP 2025

FM^{2}DS: Few-Shot Multimodal Multihop Data Synthesis with Knowledge Distillation for Question Answering   2025

Amirhossein Abaskohi, Spandana Gella, Giuseppe Carenini, Issam H. Laradji
EMNLP 2025

AgentAda: Skill-Adaptive Data Analytics for Tailored Insight Discovery   2025

Amirhossein Abaskohi, Amrutha Varshini Ramesh, Shailesh Nanisetty, Chirag Goel, David Vazquez, Christopher Pal, Spandana Gella, Giuseppe Carenini, Issam H Laradji
Spotlight paper at REALM@ACL2025

StarFlow: Generating Structured Workflow Outputs From Sketch Images   2025

Patrice Bechard, Chao Wang, **Amirhossein Abaskohi**, Juan Rodriguez, Christopher Pal, David Vazquez, Spandana Gella, Sai Rajeswar, Perouz Taslakian
Submitted to WACV 2026

BigDocs: An Open and Permissively-Licensed Dataset for Training Multimodal Models on Document and Code Tasks   2024

Juan A. Rodriguez, Xiangru Jian, Siba Smarak Panigrahi, Tianyu Zhang, Aarash Feizi, Abhay Puri, Akshay Kalkunte, Francois Savard (First Author Equal Contribution), **Amirhossein Abaskohi** (**Second Author Equal Contribution**), Ahmed Masry, Perampalli Shravan Nayak, Mahsa Massoud, Rabiul Awal, Pierre-André Noël, Mats L. Richter, Saverio Vadacchino, Shubham Agarwal, Sanket Biswas, Ying Zhang, Sathwik Tejaswi Madhusudhan, João Monteiro, Krishnamurthy (Dj) Dvijotham, Torsten Scholak, Nicolas Chapados, Sean Hughes, Tamer Özsu, Aishwarya Agrawal, Marco Pedersoli, Christopher Pal, Perouz Taslakian, David Vazquez, Issam H. Laradji, Spandana Gella, Sai Rajeswar Mudumba
ICLR 2025 & RBFM@NeurIPS2024

InsightBench: Evaluating Business Analytics Agents Through Multi-Step Insight Generation   2024

Gaurav Sahu, Abhay Puri, Juan Rodriguez, **Amirhossein Abaskohi**, Mohammad Chegini, Alexandre Drouin, Perouz Taslakian, Valentina Zantedeschi, Alexandre Lacoste, David Vazquez, Nicolas Chapados, Christopher Pal, Sai Rajeswar Mudumba, Issam Hadj Laradji
ICLR 2025

Benchmarking Large Language Models for Persian: A Preliminary Study Focusing on ChatGPT — 2024

Amirhossein Abaskohi, Sara Baruni, Mostafa Masoudi, Nesa Abbasi, Mohammad Hadi Babalou, Ali Edalat, Sepehr Kamahi, Samin Mahdizadeh Sani, Nikoo Naghavian, Danial Namazifard, Pouya Sadeghi, and Yadollah Yaghoobzadeh
LREC-COLING 2024

Beyond Words: A Multimodal and Multilingual Exploration of Persuasion in Memes — 2024

Amirhossein Abaskohi*, Amirhossein Dabiriaghdam*, Lele Wang, Giuseppe Carenini
SemEval@NAACL 2024

Can LLMs be Lateral Thinkers? — 2024

Pouya Sadeghi ***Amirhossein Abaskohi***, Yadollah Yaghoobzadeh
SemEval@NAACL 2024

Paraphrasing-Guided Data Augmentation for Contrastive Prompt-Based Few-Shot Fine-Tuning — 2023

Amirhossein Abaskohi, Yadollah Yaghoobzadeh, Sascha Rothe
ACL 2023

PEACH: Pre-Training Sequence-to-Sequence Multilingual Models for Translation with Semi-Supervised Pseudo-Parallel Document Generation — 2023

Amirhossein Abaskohi*, Alireza Salemi*, Sara Tavakoli, Yadollah Yaghoobzadeh, Azadeh Shakeri
LoResMT@EACL 2023

A Large-Scale Analysis of Persian Tweets Regarding Covid-19 Vaccination — 2023

Taha ShabaniMirzaei, Houmaan Chamani, **Amirhossein Abaskohi**, Zhivar Sourati Hassan Zadeh, Behnam Bahrak
Springer's Social Network Analysis and Mining Journal

Persian Emotion Detection using ParsBERT and Imbalanced Data Handling Approaches — 2022

Amirhossein Abaskohi, Nazanin Sabri, Behnam Bahrak
arXiv preprint arXiv:2211.08029

A Comparative Analysis of Sarcasm Detection Using Generative-based and Mutation-based Data Augmentation — 2022

Amirhossein Abaskohi, Arash Rasouli*, Tanin Zeraati*, Behnam Bahrak
SemEval@NAACL 2022

Automatic Speech recognition for Speech Assessment of Persian Preschool Children — 2022

Amirhossein Abaskohi, Fatemeh Mortazavi, Hadi Moradi
arXiv 2203.12886

Volunteering

- Publicity Chair for Future of NLP Workshop — Oct 2024-Dec 2024
- Artificial Intelligence and Machine Learning Mentor in Summer School 2021 — Summer 2021
- Freelance Content Creation on Medium — Jul 2021-Present
- Freelance Content Creation on YouTube — Jul 2021-Present
- Working on The Backend API System of Cognitive Tests For Preschool Children Project — Nov 2020-Feb 2021

Honors and Awards

President's Academic Excellence Initiative PhD Award (PAEIPA) — Aug 2025

Awarded the President's Academic Excellence Initiative PhD Award (PAEIPA), a prestigious scholarship recognizing outstanding doctoral students at UBC. This award acknowledges academic excellence and supports advanced research training.

Graduate Support Initiative (GSI) Award — Aug 2025

Recipient of the Graduate Support Initiative (GSI) Award, which provides financial support to graduate students. The award recognizes strong academic performance and potential for impactful research.

Selected for Spotlight Presentation: "AgentAda: Skill-Based Data Analytics Agents" — May 2025

Our paper was selected as a Spotlight Paper at the Workshop on Research on Agent Language Models (REALM) at ACL 2025, recognizing it among the top submissions. The work introduces AgentAda, a modular data analytics agent that dynamically retrieves and applies reusable "skills" for interpreting and analyzing tabular data. The recognition highlights both the novelty of our retrieval-augmented generation framework and its practical utility in automating insight-driven reasoning with large language models.

Mitacs Fellowship (Mitacs internship project IT41557) — Jun 2024

I was honored to receive the Mitacs Fellowship, which provided me with a unique opportunity to collaborate with industry partners on cutting-edge research projects. This experience allowed me to apply my academic knowledge to real-world challenges, enhancing my skills in problem-solving and innovation.

UBC International Tuition Award
April 2023

Recipient of the UBC International Tuition Award, recognizing academic excellence and providing financial support to eligible international graduate students at UBC.

UBC CS Strife Award
April 2023

UBC CS Department Offers Additional Funding for Talented Students from Selected Countries.

Best Undergraduate Project Award
Sept 2022

My project on "Pre-Training Sequence-to-Sequence Multilingual Models for Translation with Semi-Supervised Pseudo-Parallel Document Generation" has been awarded as the best undergraduate project in the 16th Project Day competition of ECE school of the University of Tehran.

Supporter Foundation of University of Tehran Scholarship
Sept 2020

Awarded to the top 500 students among 35000 students in the university.

Admission to University of Tehran
Sept 2018

Ranked 46th (regional rank), and 1125th (national rank) among 144,437 participants in the Iranian Nationwide University Entrance Exam for Mathematics and Physics discipline.

Skills

Programming Languages: Python, C\C++, SQL, C#, Java, Dart, JavaScript, GNU Octave, MATLAB, Verilog HDL

Technologies: Git, Docker, Jupyter, Google Colab, LaTeX

Tools: Pytorch, Tensorflow, Matplotlib, Jupyter, CUDA, Django, Flask, GraphQL, Apache Airflow, PowerBI

Operating Systems: Linux (Ubuntu, Parrot, Kali), Windows, MacOS, Cloudera

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