

AMIRHOSSEIN DABIRIAGHDAM

Department of Electrical and Computer Engineering, University of British Columbia, Vancouver, Canada

☎ +1 6728555048 ✉ amirhossein@ece.ubc.ca 📧 DabiriAghdam 🌐 DabiriAghdam

EDUCATION

University of British Columbia (UBC)

- Ph.D. in Electrical and Computer Engineering Sep. 2025 - Present
 - M.A.Sc. in Electrical and Computer Engineering Sep. 2023 - Aug. 2025
- Thesis: "Combating Disinformation in the Age of Generative AI: From Watermarking LLMs to Persuasion Analysis of Memes"*
Cumulative GPA: 96.3/100 (A+) (Thesis Grade: 100/100)

University of Tehran

- B.Sc. in Electrical and Computer Engineering Sep. 2018 - Jul. 2023
- Thesis: "An Analysis of Forgettable Examples Extracted During Multilingual Models Training"*
Cumulative GPA: 19.21/20 (A+)

RESEARCH INTERESTS

- Natural Language Processing
- LLM-as-Agent
- Decision Making
- Information Theory

PUBLICATION

- SimMark: A Robust Sentence-Level Similarity-Based Watermarking Algorithm for LLMs
Amirhossein Dabiriaghdam, Lele Wang
EMNLP Main Conference, Suzhou, China, November 2025.
- BCAmirs at SemEval-2024 Task 4: Beyond Words: A Multimodal and Multilingual Exploration of Persuasion in Memes
*Amirhossein Abaskohi**, **Amirhossein Dabiriaghdam***, Lele Wang, Giuseppe Carenini (**Equal Contribution*)
Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024) @ NAACL 2024, Mexico City, Mexico, June 2024.
- Targeted Adversarial Attacks against Neural Machine Translation
Sahar Sadrizadeh, **Amirhossein Dabiriaghdam**, Ljiljana Dolamic, Pascal Frossard
IEEE ICASSP, Rhodes Island, Greece, June 2023.

HONORS & AWARDS

- Awarded 4 Year Doctoral Flowship (4YF) from UBC. 2025
- Received GSI Award from UBC. 2023 - 2024
- Received International Tuition Award from UBC. 2023 - 2024
- Received Homa Foundation Scholarship from UBC. 2023
- Ranked 2nd among 120 bachelor students, University of Tehran. 2022
- Ranked 537th among about 150000 participants in the Nationwide University Entrance Exam. 2018
- Receiver of Faculty of Engineering (FOE) Award. 2019
- Recognized as a talented student in the entrance exam of NODET for high school. 2014 - 2018
- Kyokushin Karate Black Belt holder and member of IKO Kyokushinkaikan. 2008 - Present

RESEARCH EXPERIENCE

Graduate Research Assistantship

ECE department, University of British Columbia

Sep. 2023 - Present

Vancouver, Canada

- Under the supervision of Dr. Giuseppe Carenini and Dr. Lele Wang.

Research Internship - EPFL Excellence in Engineering (E3)

Jul. 2022 - Sep. 2022

Signal Processing Laboratory 4 (LTS4), EPFL

Lausanne, Switzerland

- Worked on the targeted adversarial attacks against neural machine translation models.
- Under the supervision of Dr. Pascal Frossard.

Undergraduate Research Assistantship

Sep. 2022 - Jul. 2023

ECE department, University of Tehran

Tehran, Iran

- Worked on analyzing the effect of forgettable examples training on the out-of-distribution generalization of multilingual models in single- and multi-source training (for my bachelor's thesis).
- Under the supervision of Dr. Yadollah Yaghoobzadeh.

Summer Internship

Jul. 2021 - Sep. 2021

HARA.ai Co

Tehran, Iran

- Worked on developing a chatbot natural language understanding unit using state-of-the-art deep learning models. (GitHub)
- Under the supervision of Dr. Reshad Hosseini.

TEACHING EXPERIENCE

Graduate Teaching Assistant, University of British Columbia

- **CPSC 422 - Intelligent Systems**

Instructor: J. Johnson Winter 2023 & Fall 2025

- **CPSC 422 - Intelligent Systems**

Instructor: Dr. G. Carenini Winter 2024

- **CPSC 322 - Introduction to AI**

Instructor: Dr. M. Oveisi Fall 2024

- **CPEN 311 - Digital Systems Design**

Instructor: Dr. Y. Linn Summer 2025

Undergraduate Teaching Assistant, University of Tehran

- **Engineering Probability & Statistics**

Instructor: Dr. B. Bahrak Fall 2022

- **Signals and Systems**

Instructor: Dr. S. Akhavan Behabadi Winter 2022

- **Engineering Mathematics**

Instructor: Dr. M. Mohammad Taheri Fall 2020

- **Introduction to Computing Systems and Programming**

Instructor: Dr. M. Moradisabzevar Fall 2019

RELEVANT COURSES (Graduate courses are indicated by †)

- **NLP meets HCI[†] (90/100)**

Instructor: Dr. G. Carenini

- **Machine Learning[†] (92/100)**

Instructors: Dr. M. Schmidt & Dr. J. Clune

- **Deep Learning with Structures[†] (95/100)**

Instructor: Dr. R. Liao

- **Reinforcement Learning[†] (20/20)**

Instructor: Dr. M. Nili Ahmad Abadi

- **Linear Algebra (20/20)**

Instructor: Dr. M. J. Yazdanpanah

- **Data Structures (19.7/20)**

Instructor: Dr. R. Shojaei

- **NLP Commonsense[†] (99/100)**

Instructor: Dr. V. Shwartz

- **Information and Coding Theory[†] (94/100)**

Instructor: Dr. C. Leung

- **Fundamentals of Visual Computing[†] (93/100)**

Instructor: Dr. X. Li

- **Natural Language Processing[†] (20/20)**

Instructors: Dr. Y. Yaghoobzadeh & Dr. H. Faili

- **Artificial Intelligence (20/20)**

Instructors: Dr. H. Fadaei & Dr. M. Moradi

- **Algorithm Design (19.1/20)**

Instructor: Dr. M. Asadpour

TECHNICAL SKILLS

Programming Languages	Python, C/C++, MATLAB, Verilog, Visual Basic Familiar with C#, JAVA, PHP, SQL, JS, Assembly
ML/AI toolkits	Huggingface Transformers, PyTorch, Tensorflow, Keras, NumPy, Pandas, scikit-learn, OpenCV
Engineering & Simulation Software	MATLAB Simulink®, ModelSim, Quartus, Proteus, CoppeliaSim, ROS, Gazebo
Technology	L ^A T _E X, MQTT, Git, MakeFile Familiar with ARM (STM32), AVR, Arduino, ESP32

LANGUAGES

Persian	Native (Bilingual proficiency)
Turkish (Azari)	Native (Bilingual proficiency)
English	Full professional proficiency

REFERENCES

- Dr. Giuseppe Carenini [Full Professor]
- Dr. Lele Wang [Assistant Professor]