Omid Reza Heidari

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EDUCATION

Concordia University, Montréal, Canada

Master of Science in Computer Science

Islamic Azad University, Zanjan, Iran

Bachelor of Engineering in Computer Engineering

2023 — Present GPA: 3.00/4.00

2017 - 2022

GPA: 3.47/4.00

RESEARCH INTERESTS

Computer Vision; Multimodal Vision-Language; NLP; Retrieval Augmented Generation; Multimodal AI Agents.

PUBLICATIONS

2024

• Omid Reza Heidari*, Li Gu*, Jiahao Nick Li*, Yang Wang. Retrieval Augmented Generation for Natural Language Query in Egocentric Videos. Work in progress.

2023

• Omid Reza Heidari, Ahmadreza Zakerian Zadeh, Mohsen Dadashi. Assessment of Structural Connectivity and Brain Volumes after tDCS in Stroke: A Machine-learning Method.

Awards and Honors

Best Poster Award

Apr 2024

Mila - Quebec AI Institute

Presented for the poster titled "Retrieval Augmented Generation for Natural Language Query in Egocentric Videos"

ACADEMIC EXPERIENCE

Concordia University

Montréal, Canada

Teaching Assistant

Jan 2024 — Present

- COMP6321 Machine Learning
- COMP353 Databases
- COEN352 Data Structures and Algorithms

Zanjan University of Medical Science

Data Reserach Analyst

Zanjan, Iran Jul 2022 — Jan 2023

- Conducted research in the area of Machine Learning and Electroencephalogram signals under the supervision of Dr. Michael Nitsche and Dr. Mohsen Dadashi.
- Collected and preprocessed data to be evaluated with Machine Learning models.
- Utilized several approaches, such as Welch, Convolution, and Fourier transform, to compute connectivity, power, and amplitude

Sharif University of Technology

Teaching Assistant

Tehran, Iran

Sep 2022 — Feb 2023

• CE717 - Machine Learning

Zanjan University

Teaching Assistant

Zanjan, Iran Sep 2021 — Jun 2022

- Principles Of Database Design
- Digital Logic Design
- Advanced Programming

SELECTED COURSES

Master's Courses

- Links Between Computer Vision and Language
- Representation Learning
- Machine Learning

Bachelor's Courses

- Artificial Intelligence and Expert Systems
- Advanced Database

LANGUAGE PROFICIENCY

IELTS (Academic): 7

Listening: 7.5 — Reading: 7

Speaking: 6.5 — Writing: 6

Test date: Nov 2022

French:

Listening: A1— Reading: A1

Speaking: A1 — Writing: A1

SKILLS

• **Programming:** : Python, MATLAB, JavaScript

• Frameworks: PyTorch, Scikit-learn