

# Mina Jaberi

PH.D. STUDENT IN TELECOMMUNICATIONS

Ottawa, Ontario, Canada

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## Education

### Institut National de la Recherche Scientifique, University in Quebec

Montreal, Quebec, Canada

PH.D. IN TELECOMMUNICATIONS (GPA: 3.66 OUT OF 4.00)

May. 2023 - Present

- Member of MuSAE Lab ([MuSAELab](#))

### Islamic Azad University - Central Tehran Branch

Tehran, Iran

M.Sc. IN COMPUTER ENGINEERING (GPA: 16.74 OUT OF 20)

Sep. 2016 - Nov. 2020

- Thesis Title: Human activity recognition via wearable devices using enhanced ternary weight convolutional neural network ([Published Paper](#))

### Islamic Azad University - Central Tehran Branch

Tehran, Iran

BS IN COMPUTER ENGINEERING (GPA: 16.28 OUT OF 20)

Sep. 2010 - May 2016

- Project: Machine Learning survey

## Academic Research & Projects

Jan. 2016 **Online Learning System**, Design, implementation and database development of an online learning system. Implemented in Php (Yii Framework) and MySQL (BSc final project)

June 2023 **Deepfake Detection**, Design, implementation a model for deepfake detection with FaceForensics ++ dataset via heart rate variation. Implemented in Python (SciPy, NumPy) (PhD reading course project)

May 2023 **Cybersickness Detection**, Leveraging Deep Learning for Cybersickness Severity Prediction in Virtual Reality headsets

May 2023 **Deepfake Detection**, Implemented a graph neural network approach for deepfake detection, enhancing digital content authenticity and trustworthiness

Dec. 2023 **Facial Emotion Detection**, Implemented Deep Learning Convolutional Neural Network using Pytorch for emotion detection. ([Github link](#))

Dec. 2023 **Multimodal Emotion Detection**, Implemented a comparison analysis of multimodal emotion detection using different machine learning models. ([Github link](#))

Current Research **Privacy in Metaverse**, Conducting ongoing research to develop innovative strategies aimed at preventing private information leakage within the metaverse, enhancing digital privacy and security in immersive virtual environments.

## Publications

2022 **Mina Jaberi and Reza Ravanmehr**, "Human activity recognition via wearable devices using enhanced ternary weight convolutional neural network, 2022 [Link](#).

2024 **Ihsân Grichi, Mina Jaberi, Tiago H Falk**, "Biosensor-Instrumented xR Headsets: A Double-Edged Sword for User Identity and Privacy Management in the Metaverse, 2024 [Link](#).

## Skills and Languages

- **Programming Languages and Libraries:** Python, PyTorch, PyTorch Geometric, JavaScript, NodeJS, Php, Java (Basic), C (Basic)
- **Computing:** macOS, Linux, git
- **Databases:** MySQL/PostgreSQL, MongoDB
- **Languages:** English (Professional Proficiency), Persian (Native)

## Work Experience

### Pardazesh Pishesh Medrik Co.

Tehran, Iran

SOFTWARE DEVELOPER

Jan. 2017 - Sep. 2019

- Developed Databases Using MySQL.
- Developed and Maintained Web Applications Back-End Using C#.Net.