# Nafiseh Izadyar

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## Education

2021–Present **Ph.D. in Computer Science**, *University of Victoria*, British Columbia, Canada.

Supervisor: Dr. Teseo Schneider

2016–2019 **M.Sc. of Artificial Intelligence**, *Amirkabir University of Technology*, Tehran, Iran.

Thesis: Visual Question Answering(VQA) (Deep Learning/Computer Vision/ NLP/Reinforcement Learning)

Advisor: Prof. Ahmad Nickabadi

Grade: 19.5/20

GPA: 3.4

2011–2015 **B.Sc. of Computer Software Engineering**, *Shariaty Technical and Vocational University*, Tehran, Iran.

Thesis: Fingerprint Recognition (Image Processing/Pattern Recognition)

Advisor: Prof. Mohsen Moshki

Grade: 20/20

GPA: 3.82

## Research Interests

- Machine Learning
- Deep Learning
- Computer Vision

## Teaching Experience

### Teaching Assistant

Fall 2021 "Introduction to Artificial Intelligence", Instructor, Prof. George Tzanetakis, University of Victoria

### Teaching Assistant

Fall 2018 "Machine Learning", Instructor, Prof. Ehsan Nazerfard, Amirkabir University of Technology

## Honors and Awards

2016 **Ranked Top 0.5% among all applicants of The Nationwide M.Sc. Admission Exam**.

More than 17,000 applicants, Computer Engineering

2015 **Best Final Project Award in Shariaty Technical and Vocational University**.

2012-2015 **Ranked 2nd Among all CE students of Shariaty Technical and Vocational University Class 2015**.

2012 **Ranked Top 1% among all applicants of The Nationwide B.Sc. Admission Exam**.

More than 350,000 applicants, Mathematics

2008 **Ranked 3rd in Iranian "Physics Olympiad" Karaj, Iran**.

## Publication

Nafiseh Izadyar and Ahmad Nickabadi. An improved method for visual question answering using gated recurrent units and local search. *Computer Society of Iran Computer Conference (CSICC)*, 2019

## Selected Courseworks and Projects

Selected Courseworks: Evolutionary Computing, Machine Learning, Statistical Machine learning, Pattern Recognition, Computer Vision, Image Processing, Neural Networks, Probabilistic Graphical Models, Big Data Analytics

Projects

**Deep photometric stereo for 3D surface reconstruction**, *2020*.

**Visual Question Answering**, *The goal in this task was finding a correct answer for given image and corresponding question*, 2019.

**A Genetic Algorithm for planning tourism access roads**, *The goal in this task was finding the most optimized road to build in a forest (Submitted Paper in Tourism Management Perspectives Journal (Elsevier) as a co-author)*, 2018.

**CUR matrix decomposition for improved data analysis**, *2018*.

**Implementing DBSCAN algorithm with Map-Reduce**, *2017*.

**Implementing KNN algorithm with LSH approach**, *2017*.

**A matching method for UAV images with satellite images**, *The goal in this task was providing an approach to find the location of an image taken by a quadratop in an existing satellite image*, 2017.

**Fingerprint Recognition**, 2015.

## Languages and Tests

English: Fluent, **Toefl:107** *Reading: 28 Listening: 29 Speaking: 26 Writing: 24*

GRE: 316 *Q: 166, V: 160, W: 3.5*

Farsi: Native

## Computer and Technical Skills

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|---|---|
| Programming Languages | C/C++(OpenCV), Python(NumPy, SciPy, scikit-learn, Keras, TensorFlow, Pytorch), MATLAB, C#, LaTeX. |
| | Also Familiar With: HTML, CSS, Javascript. |
| Data Base | SQL |
| Backend Technologies | MySQL, Hadoop |
| Operating Systems | Linux, MacOS, Windows |