Raika Karimi

H2L 3N9, Unit 706, No 1570 Saint Timothee , Montreal, Quebec, Canada

raykakarimi@gmail.com • +1 (514) 8348376

EDUCATION

School of Electrical & Computer Engineering, University of Tehran, Tehran, Iran

- **B. Sc**. in Electrical Engineering (Telecommunications)   Sep 2013 – Mar 2018
  - Cumulative GPA: 3.28 / 4.00

Atomic Energy High School, Tehran ,Iran

- High School, Mathematics & Physics   Sep 2009 – Jun 2013

HONORS & AWARDS

- Silver medalist at Iran's National Mathematical Olympiad   Aug 2012
- Achieved certificate at International Mathematics Competition (IMC) in South Korea   May 2010
- Fellowship of National Elite Foundation of Iran, Awarded Full Scholarship   2012 –2014

RESEARCH EXPERIENCE

European Molecular Biology Laboratory, Heidelberg, Germany

- Internship   Mar 2018 – Jul 2018
  - Supervisor: Dr. Jonas Ries
  - Focus: Image processing, fluorescent Microscopy in **4Pi**, Parallel processing.

Secure Communication Lab, University of Tehran

- Voice Event Detection By Deep Learning   Sep 2017 – Jan 2019
  - Supervisor: Dr. Mohammad Ali Akhaee
  - Focus: Deep Learning, Pattern Recognition, Neural Networks.
- Keystroke Dynamic   Jun 2016 – Sep 2017
  - Supervisors: Dr. Mohammad Ali Akhaee and Dr. Sadaf Salehkalaibar
  - Focus: User Authentication, Pattern Recognition, Machine learning.
- Eye Gaze Tracking   Sep 2015 – May 2016
  - Supervisor: Dr. Mohammad Ali Akhaee
  - Focus: Image Processing, Pattern Recognition, Machine learning.

PUBLICATIONS

<u>R. Karimi</u>, R. Toosi, and M. Akhaee, "User Authentication Based on Keystroke Dynamics Using Digraph Distribution," in *IEEE Transactions on Information Forensics and Security*, 2019. (In Preparation)

WORK EXPERIENCE

Teaching assistant in **Discrete Mathematics**

- Lecturer: Dr. Siamak Mohammadi   Fall 2017

Teaching assistant in **Telecommunication Theory**

- Lecturer: Dr. Maryam Sabaghian   Fall 2017

Teaching assistant in **Digital Signal Processing**

- Lecturer: Dr. Mohammad Ali Akhaee   Spring 2017

Teaching assistant in **Signals & Systems**

- Lecturer: Dr. Mohammad Ali Akhaee   Fall 2016

Teaching assistant in **Signals & Systems**

- Lecturer: Dr. Sadaf Salehkalaibar   Fall 2016

Teaching Math Olympiad (Geometry and Combinatorics) In Salam Highschools   Sep 2013– Present

FIELDS OF INTERESTS

Deep Learning
Computational Biology
Statistical Model
Image Processing
Signal Processing

SKILLS

- MATLAB & Simulink
- Coding
  - C Programming
  - Python
  - Cuda (Familiar)
  - Verilog (Familiar)
- Latex
- Spice
- Quartus

LANGUAGES

- English: Fluent (TOEFL: Speaking(22)).   Nov 2018
- Persian: Native Language.

HOBBIES AND INTERESTS

Playing Tar (one of Iranian's music instrument) and Setar, Playing soccer, Playing Tennis, Swimming.

REFERENCES

- **Dr Mohammad Ali Akhaee**
  Assistant Professor of Electrical and Computer Engineering
  University of Tehran
  Director of Secure Communication Lab
  akhaee.ut.ac.ir • +98 218208-9746

- **Dr Maryam Sabbaghian**
  Assistant Professor of Electrical and Computer Engineering
  University of Tehran
  msabbaghian@ut.ac.ir • +98 218208-9725