

# ALI SEYFI

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🌐 Ali Seyfi

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📍 Vancouver, BC, Canada

## WORK EXPERIENCE

### Research Associate

#### Oracle, Oracle Labs

📅 May 2021 – Present

📍 Vancouver, BC, Canada

- Working on Machine Learning Explainability for outlier detection

## EDUCATION

### M.Sc. Computer Science

#### University of British Columbia

📅 Sep 2020 – (Exp.) Aug 2022

📍 Vancouver, BC, Canada

- Cumulative GPA : 96.5/100

### B.Sc. Computer Science and B.SC. Electrical Engineering

#### Sharif University of Technology

📅 Sep 2015 – Jun 2020

📍 Tehran, Iran

- Cumulative GPA (CS): 3.9/4.0
- Cumulative GPA (EE): 3.85/4.0

## SELECTED PROJECTS

### Image captioning using transfer learning and LSTMs

#### Multi-modal Learning, Vision and Language

📅 Winter 2021

📍 University of British Columbia

- Supervisor: Prof. Leonid Sigal
- An image encoder-language decoder to captioning images in Pytorch.

### Non-invasive Blood Pressure Estimation Using Photoplethysmography Signals

#### Machine Learning and Signal Processing

📅 Fall 2020

📍 University of British Columbia

- Supervisor: Prof. Robert Xiao
- [github.com/aliseyfi75/BP-Estimation-PPG](https://github.com/aliseyfi75/BP-Estimation-PPG)
- Estimating blood pressure by applying different Machine Learning and Deep Learning methods on PPG signals.

### Complexity Reduction MATLAB Toolbox

#### Max Planck Institute for Dynamics of Complex Technical Systems

📅 Summer 2019

📍 Magdeburg, Germany

- Supervisor: Prof. Dr. Peter Benner
- Developed and published a MATLAB toolbox for reducing the complexity of parametric dynamical systems.

### Intelligent Dynamical Networks: Physarum Polycephalum

#### Max Planck Institute of Molecular Cell Biology and Genetics

📅 Summer 2019

📍 Dresden, Germany

- Supervisors: Prof. Dr. Carl Modes, Prof. Dr. Ivo Sbalzarini
- Defined efficiency metrics for physarum polycephalum's growth (an intelligent slime mold) using graph theory and Resistance model.

## SKILLS

### Technical Skills

Python

Pytorch

Julia

MATLAB

R

C++

Java

C

Git

### Transferable Skills

- Ability to work effectively in a team, both as a leader and follower; gained by volunteer experience and group projects
- Energetic and excited about learning new materials and having good problem solving ability

## EXPERIENCE

### Research Assistant

#### UBC, Computer Science Department

📅 May 2021 – Present 📍 Vancouver, Canada

- Private Health data generation

### Teaching Assistant

#### UBC, Master of Data Science program

📅 Jan 2021 – Present 📍 Vancouver, Canada

- Supervised Learning 2, Unsupervised Learning, Web and Cloud computing

### Research Assistant

#### Max Planck Institute for Dynamics of Complex Technical Systems

📅 Jul 2019 - Sep 2019 📍 Magdeburg, Germany

- Complexity Reduction MATLAB Toolbox

### Research Intern

#### International Max Planck Research School for Cell, Developmental & Systems Biology

📅 Aug 2019 📍 Dresden, Germany

- Intelligent Dynamical Networks

### Team Leader

#### Sharif University of Technology, Robotic Team

📅 Jan 2018 - Nov 2018 📍 Tehran, Iran

- Programmed robotic arms to show how 5G networks boosts productivity and controls digital systems

### Research Assistant

#### Technical University of Munich

📅 Jul 2018 - Sep 2018 📍 Munich, Germany

- Data Structure Design for SCOTS Software Tool

### Research Assistant

#### Sharif University of Technology

📅 Jan 2017 - Jun 2018 📍 Tehran, Iran

- Posture Detection using Capacitive Sensing