


ALI SEYFI

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 [Ali Seyfi](#)

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 Vancouver, BC, Canada

PUBLICATIONS

Generating multivariate time series with COmmon Source COordInated GAN (COSCI-GAN)

Ali Seyfi, Jean-Francois Rajotte, Raymond T. Ng

 [link to Open Review](#)

 NeurIPS 2022

EDUCATION

M.Sc. Computer Science

University of British Columbia

 Sep 2020 – Jul 2022

 Vancouver, BC, Canada

- Cumulative GPA : 95.8/100

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

MASTER THESIS

Synthesizing multivariate time series using Generative Adversarial Networks with a Central Discriminator

Data Science Institute, University of British Columbia

 [link to thesis](#)

 Vancouver, BC, Canada

- Supervisor: Prof. Raymond T.Ng

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 caption 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 repository of the project: github.com/aliseyfi75/BP-Estimation-PPG
- Estimating blood pressure by applying different Machine Learning and Deep Learning methods to 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.

WORK EXPERIENCE

Machine Learning Engineer

Oracle, Oracle Labs

 Aug 2022 – now

 Vancouver, Canada

- Develop next-generation of AutoMLx package.

Research Associate

Oracle, Oracle Labs

 May 2021 – Aug 2022

 Vancouver, Canada

- Machine Learning Explainability for outlier detection.
- Research and develop a new black-box model explainer based on Shapley method.

RELEVANT SKILLS

Python

Pytorch

R

SQL

Julia

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

EXPERIENCE

Research Assistant

UBC, Computer Science Department

 May 2021 – Aug 2022

 Vancouver, Canada

Teaching Assistant

UBC, Master of Data Science program

 Jan 2021 – April 2022

 Vancouver, Canada

Research Assistant

Max Planck Institute for Dynamics of Complex Technical Systems

 Jul 2019 – Sep 2019

 Magdeburg, Germany

Team Leader

Sharif University of Technology, Robotic Team

 Jan 2018 – Nov 2018

 Tehran, Iran

- Programmed robotic arms to show how 5G networks boost productivity

Research Assistant

Technical University of Munich

 Jul 2018 – Sep 2018

 Munich, Germany

- Data Structure Design for SCOTS Software