Neda Shokraneh

COMPUTER SCIENCE PHD STUDENT

Simon Fraser University, 8888 University Drive, Burnaby BC, Canada, V5A 1S6

■ nshokran@sfu.ca | 🖸 nedashokraneh

Education

SFU(Simon Fraser University)

Canada, BC, Burnaby

P.H.D. IN COMPUTER SCIENCE

Jan. 2021 - present

SFU(Simon Fraser University)

Canada, BC, Burnaby

M.S. IN COMPUTER SCIENCE (JOINT WITH BIOINFORMATICS PROGRAM)

Sep. 2018 - Dec. 2020

SUT(Sharif University of Technology)

Iran, Tehran

B.S. IN COMPUTER HARDWARE ENGINEERING (MINOR IN MATHEMATICAL SCIENCES)

Sep. 2013 - Feb. 2018

Research Interests

- Statistical inference
- Computational Biology
- · Graph Representation Learning
- Dimensionality Reduction

Experience

Comp bio Lab, Simon Fraser University

Burnaby, BC, Canada

RESEARCHER UNDER SUPERVISION OF PROF. MAXWELL LIBBRECHT

Sep. 2018 - Present

NLP group, Borealis Al

Toronto, ON, Canada

MACHINE LEARNING RESEARCHER

Jan. 2021 - Apr. 2021

• I was working on comparing sequence generation and sequence editing models for the text editing task, sentence simplification, where the output sequence is highly overlapped with the input sequence.

Lupien Lab, Princess Margaret Cancer Centre/University Health Network

Toronto, ON, Canada

RESEARCH INTERN IN MATHIEU LUPIEN RESEARCH LABORATORY

May. 2019 - July. 2019

• I was working on enhancing resolution of prostate cancer sample Hi-C data from experiments with shallow sequencing using deep learning methods.

Digital Media Lab, Sharif University of Technology

Tehran, Iran

RESEARCHER (B.S THESIS) UNDER SUPERVISION OF PROF. HAMID R RABIEE

Dec. 2016 - Feb. 2018

• I did some downstream analysis for Hi-C data such as identifying TADs and promoter-enhancer interactions. I did research on different existing methods, and applied them on our data to find significant interactions.

Teaching Assistant

Tehran, Iran

SHARIF UNIVERSITY OF TECHNOLOGY

Fall 2014 - Fall 2017

C Language Programming (Fall 2014), Computer Architecture (Fall 2015, Spring 2017), Probability and Statistics (Fall 2016, Spring 2018), Computer Networks (Fall 2017), Computer Structure and Languages (Fall 2017)

Paper referee Burnaby, BC, Canada

COMP BIO LAB, SIMON FRASER UNIVERSITY

2019 - Present

• Reviewed paper for NeurIPS (2020,2021), ISMB (2021,2022), MLCB (2019)

Publications and Preprints

- Integrative chromatin domain annotation through graph embedding of Hi-C data [bioRxiv]

 Neda Shokraneh, Mariam Arab and Maxwell W Libbrecht
- Continuous chromatin state feature annotation of the human epigenome [Bioinformatics, 2022]

Habib Daneshpajouh, Bowen Chen, Neda Shokraneh, Shohre Masoumi, Kay C Wiese and Maxwell W Libbrecht

Skills_____

2018

Programming Languages Python, R, C++

Scripting Languages Bash

Languages Persian (Native), English (Fluent)

Honors & Awards

2021 , Special Grad Entrance School from Simon Fraser University

, NSERC-CREATE scholarship award (Fully funded scholarship for the first year of master's joint program in Bioinformatics)

Vancouver, BC, Canada Vancouver, BC, Canada