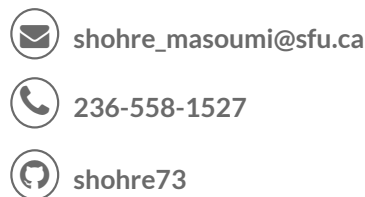


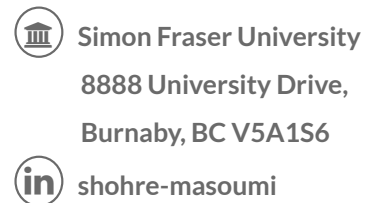
Shohre Masoumi



shohre_masoumi@sfu.ca

236-558-1527

shohre73



Simon Fraser University

8888 University Drive,
Burnaby, BC V5A1S6

shohre-masoumi

Current Position

Research Assistant

Vancouver Institute for Visual Analytics | Sep 2020

- Tableau Extension Development

Education

Master's Student | Computer Science

Simon Fraser University | Jan 2019 - Present

- **Concentration:** Computational Biology
 - **Thesis:** SigTools: a web-based visualization application that assists in epigenomic signals exploration and interpretation..
- **Senior supervisor:** Professor Kay C. Wiese

Bachelor's Degree | Computer Science

Amirkabir University of Technology | 2013–2018

- **Project:** An attempt to create longer contigs for de novo genome assembly by employing both 2nd and 3rd generation sequencing technology.
 - **Supervisor:** Professor Fateme Zaremirakabad
- GPA: 3.74
- Ranked 1st among 37

Publications

- Habib Daneshpajouh, Bowen Chen, Neda Shokraneh, **Shohre Masoumi**, Kay C Wiese and Maxwell W Libbrecht. *Continuous chromatin state feature annotation of the human epigenome*. Machine Learning in Computational Biology – MLCB (2020).

In Preparation

- SigTools: Exploratory Visualization for Genomic Signals
 - **Shohre Masoumi**, Maxwell W. Libbrecht, and Kay C. Wiese

Notable Projects

Data Visualization | Grad Level

- Created an interactive visualization for UN water resources data set using the D3 library.

Data Mining | Grad Level

- Modified RankLib –a library of ranking algorithms– to be able to rank items based on a custom ranking function.

Data Mining | Grad Level

- Modified RankLib –a library of ranking algorithms– to be able to rank items based on a custom ranking function.

Systems for Big Data | Grad Level

- Detailed reports on Cassandra and Netflix data storage systems.

Database | Undergrad Level

- Developed a web-based accounting application that connected to a SQL database and enabled adding, updating, retrieving and searching the finance records.

Artificial Intelligence | Undergrad Level

- Python implementations of Genetic Algorithm, hillClimbing, and localSearch for multiple sequence alignment problem.

Research Interests

- Data Visualization
- Computational Biology
- Human-Computer Interaction

Conferences

Poster Presentations

- Canadian Epigenetics, Environment and Health Research Consortium (CEEHRC)
 - **Shohre Masoumi**, Maxwell W. Libbrecht, Kay C. Wiese. *SigTools: Visualizing Genomic Signals*.

Attended

- IEEE Visualization Conference (VIS) 2019
- 2020 Tableau Conference-ish – Virtual
- IEEE Visualization Conference (VIS) 2020 – Virtual

Experience

Undergrad Research Mentoring

Computational Biology Lab | SFU

Achievements:

- Assisted in research and programming skills development.
- Provided educational materials and practice scripts.

Teaching Assistant

- Discrete Mathematics I
 - Instructor: Prof. Kay Wiese
- Data Structures and Algorithms
 - Instructor: Prof. Kay Wiese
- Data Structures and Algorithms
 - Instructor: Prof. Valentine Kabanets

Achievements:

- Maintained one on one communications with students to understand their problems and support them with accurate solutions.
- Maintained 50-minute tutorials discussing review questions and solutions.
- Provided quick response to emails, questions, and issues.

Technical Skills

General-Purpose

C • C++ • Python • R

Front-end

HTML • CSS • JavaScript • JQuery • D3

Back-end

PHP • SQL

Others

LaTeX • Linux • MATLAB • Microsoft Office • TensorFlow • Minishift • Tableau • Shiny

Awards and Scholarships

- Special Graduate Entrance Scholarship
 - Awarded to outstanding incoming graduate students.
- Graduate Fellowship
 - Awarded on criteria including grades and research ability.
- Graduate Research Travel Award