

Qinwei Zhuang

1430 rue City Councillors
Montreal, QC H3B 1B4
(314) 755-9997
qinwei.zhuang@mail.mcgill.ca

Programming Language

C++, Matlab, Python, R, Perl, Shell Script, and MySQL

Research Experience and Contribution

May 2019 - Present

Lab Supervisor: Dr. Guillaume Bourque (McGill University)

Project: Impact of sex on methylation in mice and primates

Type: Independent research project for PhD program in Genomic Medicine

Relation to submitted project: The submitted project is part of this training experience.

Publication:

- Sex Chromosomes and Sex Phenotype Contribute to Biased DNA Methylation in Mouse Liver. *Cells*, 2020 (First author. Estimated contribution: 80%)

Experimental Design and Model Reduction in Systems Biology

August 2017 - November 2018

Lab Supervisor: Dr. Peng Qiu (Georgia Tech)

Project: Deconvolving multiplexed protease signatures with substrate reduction and activity clustering

Type: Independent research project for Master program

Relation to submitted project: Important training experience in conducting independent research and cultivating computational skills required by the submitted project.

Publication:

- Deconvolving multiplexed protease signatures with substrate reduction and activity clustering. *PLOS Computational Biology*, 2019 (First author. Estimated contribution: 80%)
- Experimental design and model reduction in systems biology. *Quantitative Biology*, 2018 (Second author. Estimated contribution: 20%)

Assessing human exposure risk via dermal contact with thermal paper

February 2013 - May 2014

Lab Supervisor: Dr. Ruifang Fan (SCNU)

Project Focus: Detecting BPA in different paper products and evaluating the exposure risk via dermal contact among high-risk populations (i.e. grocery cashiers).

Type: Volunteering research

Publication:

- Levels of bisphenol-A in different paper products in Guangzhou, China, and assessment of human exposure via dermal contact. *Environmental Science Processes & Impacts*, 2015 (Estimated contribution: 10%)