

## Contact

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## Top Skills

R  
RStudio  
R Shiny

## Certifications

Associate Statistician (A.Stat.)  
SAS Certified Base Programmer for SAS 9

## Publications

R "BoardGames" Package

# Derek Qiu

Statistician, Data Science at ICBC (Insurance Corporation of British Columbia)  
Greater Vancouver Metropolitan Area

## Summary

"Statistics might be dull, but at least it has its moments."

## Experience

ICBC (Insurance Corporation of British Columbia)  
5 years 9 months

Data Scientist  
March 2020 - Present (2 years 3 months)  
Vancouver, Canada Area

As part of the Data Science team, my work revolves around applying machine learning algorithms on large datasets to build predictive models that help the corporation translate data into informed decision making. Since 2017, I've been actively supporting the overhaul of the current basic insurance model, and the design of and transition over to the new driver-based system, which will bring an improved insurance product to the people of B.C.

Senior Statistical Analyst  
February 2018 - March 2020 (2 years 2 months)  
North Vancouver

Statistical Analyst  
June 2017 - January 2018 (8 months)  
North Vancouver

(On Leave)  
January 2017 - May 2017 (5 months)

Statistical Assistant  
September 2016 - December 2016 (4 months)  
North Vancouver

Health Canada | Santé Canada  
Statistical Analyst  
May 2016 - August 2016 (4 months)

#### Ottawa, Canada Area

Tasks centered around performing exploratory data analysis and building predictive models on gene expression data. This was done to assess the genotoxicity status of various carcinogens and detect corresponding potential biomarkers of genotoxicity. Results for gene expression obtained from high-throughput methods often end up being high-dimensional, so shrinkage methods (Shrunken Centroid, LASSO, etc.) were commonly employed as the modeling approach of choice. Web and text scraping were also performed to an extent to automate extraction of gene names.

#### Simon Fraser University

Graduate Teaching Assistant

September 2015 - April 2016 (8 months)

#### Burnaby, Canada Area

Primarily on marking and invigilation duties for homework and exams. I used to hold a lot of workshop hours where I helped students with their assignments and answered questions, which I really enjoyed, but then my hours got forcefully reassigned to just marking and invigilation - so now I'm sad.

#### The University of British Columbia

Warehouse Logistics Assistant

September 2014 - April 2015 (8 months)

#### Vancouver, Canada Area

Highlights include waking up at 5 a.m. and hauling 100 kilos of flour to the secret underground bakery in the student union building that nobody seemed to know existed (yet no one questions how there were always freshly baked muffins and bagels every morning for sale).

#### The University of British Columbia

Mathematics Tutor / Teaching Assistant

September 2013 - April 2014 (8 months)

#### Vancouver, Canada Area

Slaved away for the Mathematics department as a tutor for first-year calculus. Mind you, this was back in the day when the minimum wage was \$10.25... '11 still haunts me with the \$8.75... those were dark times.

#### Pacific Institute for the Mathematical Sciences

Project Assistant

September 2012 - April 2013 (8 months)

Worked with a team to promote engaged learning in mathematics across schools in Vancouver, with particular focus placed on helping aboriginal communities.

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## Education

The University of British Columbia

Bachelor's Degree, Statistics and Economics · (2011 - 2015)

Simon Fraser University

Master's Degree, Statistics · (2015 - 2017)