

# Bradley Pick

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Graduate student in data science completing the final project of a master's degree. Interested in data science, data engineering, machine learning, mathematics, and optimization. Strong technical, business, and interpersonal skills for working in a team and successfully completing a project.

## Education

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### Academic Qualifications.....

- **The University of British Columbia** **Vancouver, BC**  
*Master of Data Science*  
(In progress) *2017–Present*
- **The University of British Columbia** **Vancouver, BC**  
*Bachelor of Arts*  
Honours in Mathematics *2012–2015*
- **Thompson Rivers University** **Kamloops, BC**  
*General Studies*  
Transfer to UBC *2009–2012*

### Notable Projects.....

- **Masters Capstone Project (Ongoing):** *'Read by QxMD Collections Recommendations'*  
This project involves a team of graduate students building a recommendation engine for the *Read by QxMD* application. It involves close collaboration with QxMD identifying their business objectives and discovering how data science can be used to achieve said objectives. Specifically my roles include developing certain sub-modules of the deliverable Python package(s), reading research papers to identify particularly pertinent machine learning models, and maintaining the development environment/Docker containers. Furthermore, the project includes the development of a pipeline that ingests data from a production database and yields recommendations in batches.
- **Extracurricular Project (Ongoing):** *'Implementing Global optimization of Lipschitz functions'*  
This additional project involves the implementation of a global optimization technique called LIPO from the paper 'Global optimization of Lipschitz Functions' by Cédric Malherbe, Nicolas Vayatis. The main goals include replication of the original results and further numerical experimentation. It involves significant exposure to scientific computing (in general and specifically in Python) and optimization.
- **DSCI 532 Data Visualization II Final Project:** *'Canadian Food Expenditure Shiny App'*  
This course project involved the development of an R shiny application displaying data collected by Statistics Canada pertaining to household expenditure on food. Particular attention was paid to correct use of the underlying theory of data visualization. This was done with the end goal of ease of use and understanding for the consumer.
- **DSCI 522 - Data Science Workflows Final Project:** *'BC Motor Vehicle Incident Analysis'*  
This course project involved the development of a simple analysis of data on motor vehicle incidents in British Columbia. The data source was the Government of BC data catalogue. Particular attention was paid to dependency management and reproducibility. Specific tools used include packrat for R package management, Make for simple building, and Docker for containerization.

## Previous Employment

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- **Dawson Construction** **Various Locations in BC**  
*Quality Control Technician/Labourer* *2015-2017*  
As a quality control technician I worked on site to ensure the various elements of the construction project were carried out in accordance with Dawson's Quality Control plan. This included density testing, surveying, and the associated documentation.
- **Ponderosa Ginseng Farms** **Kamloops, BC**  
*Equipment Operator* *2005-2015*  
Operate various forms of light and heavy equipment. Perform strenuous physical labour.
- **Vancouver School of Economics** **Vancouver, BC**  
*Research Assistant* *2013-2014*  
Aided in the construction of statistical estimation programs and prepared data for analysis.

## Technical and Personal skills

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- **Programming Languages:** PYTHON, R, TeX
- **Industry Software Skills:** SQL, Linux, Docker, Amazon Web Services (EC2, S3, EMR), and a variety of statistics/ machine learning libraries.
- **General Business Skills:** Very strong written and verbal communication skills. Excellent ability to convey complex ideas clearly to various stakeholders. Commitment to being a valuable team member and helping others thrive in a collaborative environment.

## Interests and extra-curricular activity

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- I have a strong interest in mechanical systems and, in particular, motor vehicles. This largely manifests as being the sole maintainer of all vehicles I have ever owned - I enjoy pulling wrenches and learning through the disassembly/reassembly of mechanical systems.
- I am an avid hiker and snowboarder who enjoys spending time outside with my partner and dog (especially in Beautiful British Columbia).

## References

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- References available on request