Bradley Pick

204 - 1045 West 14th Ave, Vancouver, BC, V6H 1P4
778-257-3025 • bradleypick@gmail.com
github.com/bradleypick

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

Academic Qualifications

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

Notable Projects

- **Masters Capstone Project (Ongoing):** *Collections Recommendations with QxMD*

  Part of a team of graduate students building a recommendation engine for the *Read* app by QxMD. The project involves identifying business objectives, reading research papers to identify particularly pertinent machine learning models, applying machine learning to build a recommender system, and maintaining the Python development environment/Docker containers.

- **Extracurricular Project (Ongoing):** *Implementing Global optimization of Lipschitz functions*

  Implementing a global optimization technique called LIPO from the paper *Global optimization of Lipschitz Functions* (published in ICML 2017). The main goals are replication of the original results and further numerical experimentation. The project involves significant exposure to optimization and scientific computing in Python.

- **DSCI 532 (Data Visualization II) Final Project:** *Canadian Food Expenditure Shiny App*

  Developed 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 to promote ease of use.

- **DSCI 522 (Data Science Workflows) Final Project:** *BC Motor Vehicle Incident Analysis*

  Developed a simple data analysis pipeline 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.

Employment History

- **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. Performed 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

- **Programming Languages:** Python, R
- **Industry Software Skills:** SQL, Linux, Docker, Amazon Web Services (EC2, S3, EMR), 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-curriculars

- 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

- References available on request