

Tim Cashion

Data Scientist

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Vancouver, BC 📍

timcashion.github.io 🌐

linkedin.com/in/timcashion in

EDUCATION

PhD in Oceans and Fisheries University of British Columbia

09/2017 – Present

Vancouver, BC

Projects

- Built an econometric regression discontinuity model of fishery eco-labeling programs to determine causal impact of eco-labels.
- Rasterized and combined fisheries satellite data with threatened species ranges to inform spatial management for low-cost conservation.

Master's of Environmental Studies Dalhousie University

09/2013 – 06/2015

Halifax, NS

WORK EXPERIENCE

Master's of Data Science Teaching Assistant University of British Columbia

09/2019 – Present

Vancouver, BC

Achievements/Tasks

- Taught weekly tutorials in R and Python and helped students one-on-one understand the importance of linear regression modeling, feature engineering and normalization, and model selection between different machine learning models.
- Assessed weekly assignments for code correctness and quality

Fisheries Economist Independent Consultant

01/2017 – Present

Vancouver, BC

Achievements/Tasks

- Delivered data-driven analysis to NGOs focusing on fisheries economics.
- Gathered data from government and industry sources to evaluate the current economic value of the BC herring fishery to inform an NGO media campaign. Compiled and wrangled data in R.

Senior Research Assistant University of British Columbia - Sea Around Us

10/2015 – 07/2017

Vancouver, BC

Achievements/Tasks

- Maintained and updated database using data cleaning and manipulation, querying and updating our relational database with SQL, and web scraping.
- Led two major projects of adding features to the database for better resolution of fisheries catch data by gear type and end use (human consumption or not).

SKILLS

Python R SQL data wrangling numpy

causal inference scikitlearn tidyverse HTML

CSS Git caret data visualization

PERSONAL PROJECTS

Vancouver's Data Science Market (09/2019)

- Web scraped data from LinkedIn on data science job postings in Vancouver to analyze current patterns and dominance of SQL. Visualized data with plotnine in Python. <http://tiny.cc/d187jz>

Economic Value of Pacific Herring in the Strait of Georgia (01/2019 – 04/2019)

- Prepared for the NGO Pacific Wild and available here: <https://timcashion.github.io/PacificHerring/>

SELECT PUBLICATIONS

Cashion, T., de la Puente, S., Belhabib, D., Pauly, D., Zeller, D., & Sumaila, U. R. (2018). Establishing company level fishing revenue and profit losses from fisheries: A bottom-up approach. *PloS one*, 13(11). [↗](#)

Cashion T., Le Manach, F., Zeller, D., & Pauly, D. (2017) Most fish destined for fishmeal are food-grade fish. *Fish and Fisheries* 18(5): 837-844. [↗](#)

CERTIFICATES AND AWARDS

Fishackathon City Winner (Vancouver) (02/2018)

Led a team to win the Vancouver Fishackathon with an R Shiny app called GrowFish. GrowFish enables feed manufacturers to evaluate economic and environmental trade-offs for fish feeds.

Data Scientist in Python Stream (2016 – 2017)

Online learning delivered by dataquest.io involving 30+ courses. I focused my learning on data cleaning, machine learning, and SQL.

Social Sciences and Humanities Research Council's Doctoral Fellowship (09/2017 – Present)

Doctoral scholarship valued at \$80,000 over 4 years.

University of British Columbia 4-Year Fellowship (09/2017 – Present)

Doctoral scholarship for tuition for 4 years.

Nova Scotia Graduate Scholarship (2014)

Master's scholarship valued at \$10,000.

INTERESTS

Running

Board games

Brewing beer