

🏠 Vancouver, BC, Canada

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VIRGINIA CHEN

Full-stack data science · Machine learning solutions
Passion, curiosity, and collaboration



WORK EXPERIENCE

▲ Co-founder, Lead Data Scientist

2018 – Present

Pawsperity Biotechnologies Inc. · Vancouver, BC, Canada

- 🔗 Advises on the design, analysis, and validation of internal studies
- 🔗 Trains machine learning models, and builds Dash web apps
- 🔗 Participates in strategic planning and design discussions

▲ Senior Data Scientist

2009 – Present

PROOF Centre of Excellence · Vancouver, BC, Canada

- 🔗 Analysis planning
 - Researches and identifies the most appropriate statistical or machine learning approaches
 - Develops and executes statistical analysis plans for in-house and fee-for-service projects
- 🔗 Data science
 - Develops scripts to perform a variety of functions including: power calculations, quality assessment, data cleaning and pre-processing, exploratory analysis, biomarker discovery and validation, performance estimation, visualizations and reporting
- 🔗 Technical writing
 - Writes documentation, method descriptions, and analysis reports
 - Assists with the writing of manuscripts, grants, and proposals
- 🔗 Interdisciplinary communication
 - Translates researchers' clinical questions into analytics, and results into interpretable insights
- 🔗 Knowledge sharing & mentorship
 - Organizes and facilitates a weekly meeting for problem-solving and knowledge sharing
 - Trains, assists, and provides informal mentorship to new members of the computational team and students at the Centre for Heart Lung Innovation

TECHNICAL SKILLS

Languages Python · R · SQL

Data science & Machine learning classical statistics · supervised and semi-supervised modelling · survival (time-to-event) analysis · hypothesis testing · clustering · anomaly detection · sensitivity analysis · model evaluation · NLP · explainable AI

Visualization ggplot2 · seaborn · Plotly/Dash · HTML · CSS · D3

EDUCATION

▲ MA Biostatistics

2007 – 2009

School of Public Health, University of California, Berkeley · Berkeley, CA, USA

▲ BSc Combined Honours in Computer Science and Statistics

2002 – 2006

University of British Columbia · Vancouver, BC, Canada