

Justin Furlotte

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WORK EXPERIENCE

Data Scientist

Jul 2022 – Present

Fiddlehead Technology

Moncton, NB

- Project lead on several time series forecasting pipelines which regularly deliver robust, high-performing results with significant “forecast value add” (FVA).
- Developer of Fiddlehead’s internal time series Python package, which is regularly maintained and updated with cutting-edge modelling and analysis algorithms.
- Organized regular internal time series seminars, where we keep up to date on best practices by reviewing articles from Foresight: The International Journal of Applied Forecasting.
- Conducted dozens of interviews for data scientists and mentored several new hires.

Head Teaching Assistant

Sep 2020 – Apr 2022

University of British Columbia

Vancouver, BC

- Appointed as Head TA after receiving very high student survey ratings for aptitude to explain complex topics.
- Lead all TAs for UBC’s differential calculus course and created teaching plans/problem sets.

Research Scientist

Jun 2017 – Aug 2020

C-Therm Technologies

Fredericton, NB

- Project lead for the “Flex TPS” algorithm, now one of C-Therm’s core products (retail \$9,000).
- Designed and implemented regression algorithms in Python to extract thermal properties of materials from experimental curves.
- Performed computational physics research on cutting-edge “thin film” thermal technologies, resulting in a publication in the International Journal of Heat and Mass Transfer.

EDUCATION

University of British Columbia

Sep 2022

Master of Science, Mathematics

GPA: 88%

- Thesis: The Quantum Hall Effect and Bulk-Edge Correspondence on Lattice Systems.
 - Proved a result in many-body quantum mechanics using advanced mathematical methods such as operator algebras, spectral theory, and functional analysis.

University of New Brunswick

Dec 2019

Bachelor of Science, Mathematics & Physics

GPA: 4.0

- Honors Thesis: Topology, Measure Theory, and Analysis on Fractals.

SKILLS

Python; SQL; Azure ML; Time Series; Sales Modeling & Forecasting; Machine Learning; MAP, MLE, Bayesian Modelling; Agile Project Management; Julia; MATLAB; Git; Leadership; LaTeX;