

WEIHAN LUO

<https://weihan1.github.io>

SKILLS

Languages:

Python, SQL, R, LaTeX, Java, C/C++

Technologies:

Pytorch, Git, Docker

RESEARCH EXPERIENCE

DGP Lab, University of Toronto

July 2024 - Present

Research Intern, Host: David Lindell

- 4D timelapse reconstruction of plants
- Collaborator: Andrea Tagliasacchi

DGP Lab, University of Toronto

August 2023 - July 2024

Research Intern, Host: David Lindell

- 3D surface reconstruction from raw lidar measurements

WORK EXPERIENCE

Royal Bank of Canada

May 2023 - September 2023

Data Scientist

Technologies: Python, LightGBM

- Developed a benchmark for future data analysis on a newly acquired Ontario housing valuation dataset.
- Conducted experiments on training on LightGBM with Optuna tuning to predict Canadian housing prices.
- Surpassed the baseline model by achieving a 2% increase in precision and 1% decrease in MAPE.

Royal Bank of Canada

May 2022 - April 2023

Data Analyst

Technologies used: SAS, Pandas, Teradata

- Extracted and analyzed large-scale credit card data using SQL queries in SAS.

PUBLICATIONS

Weihan Luo, Anagh Malik, David B. Lindell, "Transientangelo: Few-Viewpoint Surface Reconstruction Using Single-Photon Lidar", WACV 2025.

Samir Khaki and **Weihan Luo**, "CFDP: Common Frequency Domain Pruning", CVPR workshop 2023.

PROJECTS

Forecasting Chess Elo On A Time Series

December 2021

Data Science Project — <https://towardsdatascience.com/forecasting-chess-elo-on-a-time-series-7e448a2d161e>

- Devised a custom model to predict chess ratings based on past games.

EDUCATION

University of Toronto

2019 - June 2024

Honours Bachelor of Science with PEY Co-op

EXTRACURRICULAR AWARDS

2015 Chess National Runner-up.