# Jenny Je-Eun Lee

**Personal Info**

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## Work Experience

### Big Data Analytics, Modeling and Machine Learning Intern

Ciena, Ottawa, ON (Remote) **|** 09/2022 – Present (expected end date 12/2022)

- Python (Pandas, Numpy, Scikit-learn, Tensorflow, Plotly Dash)
- Update an existing artificial neural network model with new data (real time analysis).
- Collaborated with colleagues to build an interactive app utilizing Plotly Dash; to allow clients easily monitor their current network traffic and future predictions.

### Climate-Friendly Food Sustainability Data Analyst

University of British Columbia, Vancouver, BC **|** 08/2022 – 09/2022

- Python (Pandas, Numpy, Scipy, Matplotlib, Seaborn) · Jupyter Notebook
- Designed an automated workflow that labels newly added food ingredients from the UBC database. Assigns emission factors to each ingredient and calculates the sustainability value of each food item obtainable from the vicinity of the University of British Columbia.

### Data Science Intern

Cybera, Calgary, AB **|** 04/2022 – 08/2022

- Python (Pandas, Numpy, Scipy, Plotly, Seaborn) · Jupyter Notebook
- Analyzed, wrangled and visualized data from an open source database on trending topics.
- Collaborated with colleagues to design a hackathon content for Albertans. Prepared and wrangled open source datasets to be used as resources for data science hackathon.

## Research Experience

### Stabilized COre gene and Pathway Electron Algorithm 🔗Git Repository

Alberta Innovates Sponsorship 2022 Awardee · Data Analyst Research Assistant

University of Calgary, Calgary, AB **|** 05/2021 – Present

- R (Tidyverse, Ggplot, BiomaRt, BiocManager, WebGastaltR) · Python (Pandas, Numpy)
- ML algorithms used: SCOPE-stabilized LASSO regression, correlational analysis, co-differential analysis, pathway enrichment with Over Representation Analysis
- Implemented the SCOPE algorithm on the melanocytic tumor transcriptome dataset from NCBI. Helped debug errors in the algorithm. Created visualizations for publication.

## Personal Project

### Air Quality in Canada Visualization 🔗Git Repository

- Python (Pandas, Plotly, Scipy, Functools)
- Wrangled and created interactive visualizations of air pollution data across Canadian provinces from 2020 to 2022. Sought for a possible relationship between Particulate Matter 2.5 and occurrence of national wildfire.

### Predicting European Game Sales 🔗Git Repository

- R (Tidyverse, Dplyr, Ggplot)
- Performed linear regression and KNN regression to predict European game sales using multiple predictors. Successfully visualized and summarized the outcomes.

## Education

### Bachelor of Science, Major in Statistics (Partial credits transferred from RDC)

University of British Columbia, Vancouver, BC **|** 09/2021 – Present **|** CGPA: 3.65

### Bachelor of Science, Honors Specialization in Neuroscience

University of Western Ontario, London, ON **|** 09/2014 – 04/2019 **|** CGPA: 3.79

## Technical Skills

- Proficient with Python 3, R, Java, Matlab, SQL
- Data wrangling · cleaning, data analysis, data visualization, web scraping, text mining