Sadie Lee

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Education

University of British Columbia Vancouver, BC, CA

Bachelor of Arts in Cognitive Systems; Minor in Data Science *2022 – 2026*

Relevant Coursework: Statistical Inference, Statistical Modeling, Databases in Data Science, Applied Machine Learning, Programming and Algorithms, Visualization for Data Science, Cognitive Neuroscience

Experience

Data Science Intern Summer 2025

Voythos

- Built image models for feature extraction of CT images – PyTorch, torchvision, Nibabel, pynrrd, Linux OS
- Wrote unit tests for models, pre-processing, and data augmentation
- Fine-tuned LLMs to extract clinical features from radiology reports

Research Student - Mayo Clinic Platform Summer 2025

Mayo Clinic

- Conducting original research to investigate patient re-identification risks from AI models trained on de-identified medical images

Undergraduate Intern - Mayo Clinic Platform Summer 2024

Mayo Clinic

- Built 3D classification and segmentation models with MR DICOM images to develop an end-to-end medical imaging for AI/ML modeling workflow – PyTorch, torchvision, pydicom, Nibabel, Linux OS
- Identified data cohorts for prospective customers with SQL queries
- Developed customer acquisition and product insight dashboards in Power BI

Research Assistant May 2023 – Apr. 2024

BC Children's Hospital Research Institute / UBC Faculty of Medicine

- Wrote scripts to automate collection and analysis of time in range data – R, tidyverse
- Compiling a manuscript detailing the iterative co-design and development process of a mobile app that delivers peer support to adults with type 1 diabetes

Research

Re-identification Risk of Medical Imaging-Based Deep Learning Models

2025 — Undergraduate Research Capstone

Formalizing Ethical Design in Prostate Cancer Image Analysis: A Preliminary Case Study

2024 — IEEE MIT Undergraduate Research Technology Conference

Topological Data Analysis and Interpretability of 3D-Convolutional Neural Networks

2024 — AAAI Undergraduate Consortium

Technical Skills

Languages: Python, R, SQL, C#, Javascript, Typescript, LaTeX, HTML
Technologies & Environments: Jupyter, Power BI, MongoDB, Oracle, Git, React, Next.js, Node.js, Windows, Linux
Libraries: PyTorch, torchvision, NiBabel, Pydicom, scikit-learn, scikit-image, NetworkX, tidyverse, D3.js, MONAI

Volunteering

Deep Learning Researcher Mar. – Dec. 2023

UBC Multifaceted Innovations in Neurotechnology

- Explored interaction between humans and EEG brain computer interface-based reinforcement learning agents

Data Science Consultant Jan. 2023 – Apr. 2023

180 Degrees Consulting

- Quantified and evaluated impact for a non-profit organization with a KPI dashboard in Looker (Google Data Studio)