

GALE CHEN

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EDUCATION

B.Sc. Cognitive Systems (Cognition & Brain Opt.)

May 2023

University of British Columbia, Vancouver, Canada

- Graduation with Distinction (2023): achieved an average of at least 85.0% on 30 percentage-graded credits of Science courses numbered 300 or above.
- Dean's Honour List (2018/19, 2020/21): achieved a standing of 80.0% or higher in a Winter Session during which at least 27 approved percentage-graded credits were completed.
- Completed 38 credits in undergraduate computer science courses, of which 18 credits were numbered 300 or above

ACADEMIC & RESEARCH POSITIONS

Undergraduate Teaching Assistant

University of British Columbia, Vancouver, Canada

Computer Science 317: Introduction to Computer Networking

Jan – Apr 2023

- Demonstrated strong Java programming and outstanding knowledge of computer networking concepts.

Cognitive Systems 401: Seminar in Cognitive Systems

Jan – Apr 2022, Sep – Dec 2022

- Demonstrated excellent academic writing and aptitude for understanding research papers in computer science, psychology, philosophy and linguistics.
- Graded and provided quality feedback on student research essays, and gave a lecture on argumentative essay writing.

Open Science Specialist

May – Sep 2022

Murphy Lab (Faculty of Medicine), University of British Columbia, Vancouver, Canada

- Demonstrated strong debugging skills in developing R and python scripts and installing/testing data analysis programs via Linux command line.
- Tested the usage of DataJoint, a workflow management tool based on relational database principles, by creating a local DataJoint server in Docker, and transforming and inserting fiber photometry data into the database.
- Supported life sciences research labs in adopting open science practices by co-writing R workshops and maintaining data management best-practices guides.

Bioinformatics Research Assistant

June – Dec 2020, Sep – Dec 2021

Agriculture and Agri-Food Canada, Lethbridge, Canada

- Worked as part of an interdisciplinary team on the development of BeeCSI, a large-scale multi-omics diagnostic platform for assessing bee health.
- Co-authored presentation “Developing tools to study the honeybee (*Apis mellifera*) gut microbiome response to environmental stressors”, which was presented at the 2022 North America Honey Bee Research Symposium.
- Integrated Krona, an interactive taxonomic abundance data visualization tool, into our data analysis pipeline

RESEARCH PROJECTS

Evaluating Emotion Preservation in Attribute-Preserving De-Identification (COGS 402, Python)

Sep – Dec 2022

- Capstone research paper evaluating accuracy of emotion preservation between open source GAN-based attribute-preserving facial de-identification methods.
- Compared machine-generated facial expression labels of faces pre de-identification and post de-identification to determine emotion preservation of each de-identification method.

Research Proposal: Ideological Roles of Gender Non-Conforming Identities in Anime (COGS 401)

Apr 2021

- Proposed a research project that parses anime transcripts and audience comments on internet forums to identify differences in in-universe characterization and audience perception of gender non-conforming male characters and gender non-conforming female characters in anime, revealing differences in cultural attitudes towards gender non-conformance in men and women.

Emergent Pathfinding in Pedestrian Traffic on University Campus (COGS 300, Java)

Sep – Dec 2019

- Modelled the emergent behaviour of desired paths on the University of British Columbia (UBC) campus by comparing simulated pathing of one agent to the combined pathing choices of multiple agents.
- Transformed a map of UBC's Main Mall walkway into a dynamic weighted graph and implemented a shortest path finding algorithm to define agent behaviour.

ADDITIONAL POSITIONS

Computer Science Course Coordinator

May 2023 – present

University of British Columbia, Vancouver, Canada

- Demonstrated the ability to manage a team of 10-20 teaching assistants, manage my time between different responsibilities, and communicate with students in an empathetic and timely manner.

Sexual Health Educator (Volunteer)

Sep 2018 – present

Vancouver Coastal Health, Vancouver, Canada

- Demonstrated dedication and passion to public health education, topics of gender, and sexual and emotional health.
- Co-author of LGBTQ+ focused sexual education curriculum to be taught in high schools, social service agencies, and youth centres throughout the Vancouver Coastal Health authority in 2024.
- Provided sex-positive and inclusive sexual health education to thousands of youth over my 5 years of experience.