

Leo J. Chung

leojc815@gmail.com ❖ 778-980-8436 ❖ Vancouver, BC ❖ www.linkedin.com/in/leojchung

EDUCATION

B.Sc. in Cellular & Molecular Neuroscience

The University of British Columbia

Sep. 2024 – Present

Vancouver, British Columbia

B.S. in Neuroscience (transferred)

University of Washington

Sep. 2023 – Jun. 2024

Seattle, Washington

CORPORATE & ACADEMIC RESEARCH EXPERIENCES

Research & Development Intern – Product Licensing, Testing, & Integrations

STEMCELL Technologies Inc.

May 2026 – Present

Vancouver, British Columbia

- Engineer an AI-driven data extraction platform using Python and Google Suite to scrape, batch-process, and extract lab product usage metrics from 5,000+ primary research papers to optimize future directions.
- Inform licensing decisions and validate \$9M+ in projected sales (FY27) by planning and executing laboratory verification testing across acceptance criteria for 2 new life sciences products.
- Maintain and passage 3 cell and organoid culture lines, performing qPCR assays and immunocytochemistry (ICC) with confocal microscopy to analyze organoid morphology and gene expression.
- Lead and present at department-wide R&D data meetings, delivering actionable project updates and technical reports to 20+ scientists to guide future R&D strategies.

Research Data Analyst & Statistician

Johns Hopkins University Department of Psychological & Brain Sciences (Dr. Cynthia Moss)

May 2026 – Present

Baltimore, Maryland (Hybrid)

- Identify key behavioral patterns and flight trajectory differences between bat subtypes by performing statistical analysis in R and applying machine-learning models to 10,000+ datasets and .cine files.
- Elucidate mechanisms behind flight trajectories, latencies, eye-tracking, and call patterns through design of novel behavioral assays incorporating 3D mazes, motion-capture cameras, and ultrasonic microphones.

Shenoy Undergraduate Research Fellow in Neuroscience

Djavad Mowafaghian Centre for Brain Health (Dr. Annie Ciernia)

Sep. 2025 – May 2026

Vancouver, British Columbia

- Performed behavioral assays to extract 2000+ mice vocal recordings, utilizing Python scripts and machine-learning models to extract important auditory components for downstream statistical analysis.
- Characterized behavioral and communicative variation across 4 transgenic ASD mouse genotypes through statistical modeling and analysis in R and GraphPad Prism.
- Ensured rigorous quality control across 4 experimental breeding colonies by executing PCR and gel electrophoresis to genotype 100+ transgenic mice.

School of Biomedical Engineering Synergy Award Researcher

Djavad Mowafaghian Centre for Brain Health (Dr. Annie Ciernia)

May 2025 – Aug. 2025

Vancouver, British Columbia

- Completed cryosectioning on P60 mouse brains and executed immunohistochemistry (IHC) staining across 300+ tissue sections to characterize microglia, neurons, astrocytes, and amyloid-beta plaques.
- Conducted downstream computational image analysis to quantify changes in microglial morphology and amyloid-beta plaque pathology across transgenic Alzheimer's disease and human-IBD mice models.

Undergraduate Work Learn Researcher

Djavad Mowafaghian Centre for Brain Health (Dr. Annie Ciernia)

Jul. 2024 – Apr. 2025

Vancouver, British Columbia

- Executed RNA extractions, cDNA synthesis, and qPCR to analyze and statistically compare hypothalamic expression across 12 target immune-pathway genes in human-IBD and wild-type mouse models via Prism.
- Utilized liquid chromatography mass-spectrometry to isolate elevated target hormones from blood.

WET & DRY LABORATORY TECHNIQUES

Molecular Biology & Biochemistry	Cellular & Tissue Methods	Data Analytics & Statistics
- RT-qPCR - PCR - RNA & DNA Extraction - Steroid Extraction - cDNA Synthesis - Genotyping - Column Chromatography - LC Mass-Spectrometry	- Immunostaining - Cell Culture - Organoid Culture - Tissue Sectioning - Primary Cell Isolation - Tissue Slide Imaging - Light Microscopy - Confocal Microscopy	- R (programming) - Python - Git - ImageJ & Fiji - GraphPad Prism - Animal Behaviour Analysis

AWARDS & DISTINCTIONS

Undergraduate Program in Neuroscience Leadership Award (1 st Place - \$150 CAD)	Aug. 2026
Glenn and Annetta Agnew Science Co-op Award (\$500 CAD)	Jun. 2026
Shenoy Undergraduate Research Fellowship in Neuroscience – Simons Foundation (\$11,500 USD)	Aug. 2025
School of Biomedical Engineering Synergy Trainee Talk Award (1 st Place - \$100 CAD)	Aug. 2025
Undergraduate Program in Neuroscience Research Award (1 st Place - \$150 CAD)	Jul. 2025
School of Biomedical Engineering Synergy Summer Studentship (\$9,500 CAD)	Apr. 2025
Faculty of Dentistry Undergraduate Summer Research Award (<i>Declined</i> - \$9,500 CAD)	Apr. 2025
Work Learn Program Recipient (\$7,500 CAD)	Sep. 2024
BC Achievement Scholarship (\$1,250 CAD)	Jun. 2023
District Authority Scholarship (\$1,250 CAD)	Jun. 2023

TEACHING & EDUCATIONAL EXPERIENCES

Medical Technology Education Researcher	Jun. 2026 – Present
<i>UBC School of Audiology & Speech Sciences (Dr. Stacey Skoretz)</i>	<i>Vancouver, British Columbia</i>
○ Collaborate on the development of a novel interactive Virtual Reality (VR) training module to enhance clinician education, while optimizing innovative clinical treatment protocols for dysphagia. ○ Co-authoring upcoming peer-reviewed publications in speech-language pathology and medical education by leading quantitative data analysis and comprehensive literature reviews.	
Student-Directed Seminar Coordinator - ASTU 400E: Neuroaesthetics: Your Brain On Art	May 2025 – May 2026
<i>UBC Centre for Community Engaged Learning</i>	<i>Vancouver, British Columbia</i>
○ Ideated and designed a novel course on Neuroaesthetics, which was formally offered in the second semester of the 2026 UBC Winter session for 15 upper-year undergraduate students. ○ Created a 13-week syllabus with assignments, rubrics, and readings alongside Dr. Steven J. Barnes. ○ Led a credited university undergraduate-level course, personally leading 20+ lectures and marking 150+ assignments across a full academic semester.	

WORK EXPERIENCES

General Maintenance Handyman	Jun. 2020 – Aug 2024
<i>Handyman Services</i>	<i>Vancouver, British Columbia</i>
○ Fixed over 100 orders of household damages, ranging from leaking, light fixture installations, deck repairs, furniture assembly, smart appliance setup, and more. ○ Possessed strong knowledge in customer service and maintaining 8-10 client-business relationships. ○ Quick-thinking and adaptable to respond to differing problems varying by household and client.	