

Liam Pond

EDUCATION

McGill University

Master of Music, Music Technology — Supervisor: Dr. Ichiro Fujinaga

August 2024 — Present

University of Toronto, St. George Campus

Bachelor of Music in Classical Piano Performance — Supervisor: Dr. Jamie Parker

Mathematics Minor, Piano Pedagogy Certificate

GPA: 3.95/4.00

September 2019 — April 2023

Western Canada High School

High School Diploma with Partial IB Certificate — Calgary, AB

September 2016 — June 2019

PUBLICATIONS

Abid, Noor, **Liam Pond**, and Svetlana Yanushkevich. "Causality Exploration in Modeling Engineering Student Satisfaction." In *2024 IEEE Global Engineering Education Conference (EDUCON)*, pp. 1-10. IEEE, 2024.

Anzum, Fahim, Ashratuz Zavin Asha, Lily Dey, Artemy Gavrilov, Fariha Iffath, Abu Quwsar Ohi, **Liam Pond**, Md Shopon, and Marina L. Gavrilova. "A Comprehensive Review of Trustworthy, Ethical, and Explainable Computer Vision Advancements in Online Social Media." *Global Perspectives on the Applications of Computer Vision in Cybersecurity* (2024): 1-46.

Burt, Lauren A., **Liam T. Pond**, Annabel R. Bugbird, David A. Hanley, and Steven K. Boyd. "Canadian Adult Reference Data for Body Composition, Trabecular Bone Score and Advanced Hip Analysis Using DXA." *Journal of Clinical Densitometry* 28, no. 1 (January 2025): 101535.
<https://doi.org/10.1016/j.jocd.2024.101535>.

AWARDS

Graduate Excellence Fellowship, McGill University	2024
McGill International Research Master's Award, McGill University	2024
W. O. Forsyth Admission Scholarship, University of Toronto	2019 – 2023
MAT335: Chaos, Fractals, and Dynamics Final Essay Award, University of Toronto	2023
People's Choice Podium Presentation, McCaig Institute Summer Student Symposium	2022

PNN Scholarship, University of Toronto	2021
Wayne Vance Scholarship for Organ Performance, University of Toronto	2020
Harald and Jean Bohne Scholarship, University of Toronto	2019
First Place, Piano Solo — Complete Concerto, Alberta Music Festival Association	2019
First Place, Piano Solo — Senior, Alberta Music Festival Association	2019
First Place, National Final 15 Years Old, Canadian Music Competition	2018
Rotary Calgary Concerto Competition, performed with the Calgary Civic Symphony	2018
First Place, Chamber (as part of <i>Trio Joliso</i>), Alberta Music Festival Association	2018
First Place, Piano Solo — Concerto One Movement, Alberta Music Festival Association	2017
National Mary Hildebrand Memorial Award for Performance Excellence	2016

RESEARCH EXPERIENCE

Research Assistant, McGill University

Distributed Digital Music Archives & Libraries Lab — Supervisor: Dr. Ichiro Fujinaga (Music Technology)

September 2024 — Present

- Developer on the Cantus project, a database of medieval chant scores
- Developed chant playback features for the website
- Currently working on a singing voice synthesis tool to automatically sing the chants in Latin

Research Assistant, University of Calgary

Nanotribology Laboratory — Supervisor: Dr. Philip Egberts (Mechanical and Manufacturing Engineering)

January 2024 — July 2024

- Used Python to process lubricant friction data — [GitHub](#)
- Conducted experiments to test the effect of oleic acid in lubricants
- Operated a custom tribometer using LabView software
- Prepared and tested lubricants with varying properties
- Analyzed wear scars using a Leica DM6000 M materials science microscope

Research Assistant, University of Calgary

Biometric Technologies Laboratory — Supervisor: Dr. Svetlana Yanushkevich (Electrical and Software Engineering)

May 2023 — January 2024

- Analyzed EDI data for first-year engineering students in the University of Calgary
- Coded and summarized qualitative student feedback
- Automated the transfer of survey data to Excel using Python
- Organized team files and code in GitHub

- Abstract accepted for presentation in the IEEE Global Engineering Education Conference 2024

Research Assistant, University of Calgary

Biometric Technologies Laboratory — Supervisor: Dr. Marina Gavrilova (Computer Science)

May 2023 — October 2023

- Conducted an in-depth literature review of music emotion recognition studies
- Presented research findings in other computer science labs in the University of Calgary
- Created a database by recording piano music of various genres for use in machine learning music information retrieval studies

Summer Student Researcher, University of Calgary

Chickadee Challenge — Supervisor: Dr. Marjan Eggermont (Mechanical and Manufacturing Engineering)

May 2023 — August 2023

- Presented pedagogical strategies in the Engineering Education Forum
- 3D printed a visualization of sound using OpenSCAD and Praat
- Designed classroom activities for Grade 4 students to think critically about music and nature
- Composed *Black-Capped Chickadee's Sunday Afternoon*, a classical and jazz fusion work for solo piano
- Created biomimicry design cards to teach young students about nature's survival strategies
- Transcribed chickadee calls for a paper strip music box
- Compiled research findings into a visually appealing Genius of Place document

Summer Student Researcher, University of Calgary

Bone Imaging Laboratory — Supervisor: Dr. Steve Boyd (Radiology)

May 2022 — August 2022

- Received the Audience Choice Presentation Award in the McCaig Institute Summer Student Symposium
- Presented in the Biomedical Engineering Undergraduate Summer Student Symposium
- Developed statistical analysis software using GAMLSS, a package in R
- Currently co-authoring a research paper of the study results
- Helped to integrate code into the team's website, normative.ca

WORK AND VOLUNTEER EXPERIENCE

Volunteer Medical Event Staff

Odyssey Medical, Calgary, AB

August 2024

- Treated a variety of patients, including combative individuals and those experiencing severe serotonin toxicity from the use of illicit substances

- Provided emergency medical event services at the Chasing Summer music festival
- Fulfilled a variety of roles including medical tent care, triage, and roving

Volunteer Retirement Community Pianist

Calgary, AB, and Toronto, ON

March 2012 — Present

- Eleven years of experience performing in various retirement communities across Canada
- Gave introductory speeches about music from Bach to Bell, and everything in between

Freelance Solo and Collaborative Pianist

Calgary, AB, and Toronto, ON

September 2016 — Present

- Performed five solo piano recitals in venues like the University of Toronto, Mount Royal University, and the Avenue Road Music & Performance Academy
- Substituted as a choral pianist with the Calgary Philharmonic Chorus
- Collaborated with members of the Calgary Civic Symphony for three years as an orchestral pianist
- Accompanied dozens of singers and instrumentalists in recitals, juries, and competitions

Private Piano and Music Theory Teacher

Calgary, AB, and Toronto, ON

September 2018 — Present

- Guided dozens of students of all ages (3yrs–adult) to gain an appreciation of music and build a healthy work ethic
- Prepared students for Royal Conservatory of Music examinations up to Level 8 Piano and Theory
- Fostered musical expression, robust technique, and strategic practice habits in growing pianists
- Taught and graded coursework for music theory students

FIRST AID

- Standard First Aid — Level C certification from Heart and Stroke Foundation until Jan 27, 2027
- Member and presenter in the Bow Valley Emergency Care Journal Club since September 2023

HOBBIES

Rock Climbing • Guitar • Powerlifting • Chess • Meditation • Language Learning