Liam Pond

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EDUCATION

McGill University

Master of Arts in Music Technology – Supervisor: Dr. Ichiro Fujinaga

August 2024 – Present

University of Toronto, St. George Campus

Bachelor of Music in Classical Piano Performance – Studied under 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

Saini, Vinay, **Liam Pond**, Jackson Uhryn, Albert Kalayil, Aditya Tomar, Kasimuthumaniyan Subramanian, Milana Trifkovic, and Philip Egberts. 2025. "Shear-Dependent Tribological Behavior of Oleic Acid as a Sustainable Lubricant Additive in Oils and Nano-Greases." *Wear*: 205932. https://doi.org/10.1016/j.wear.2025.205932.

Burt, Lauren A., **Liam T. Pond**, Annabel R. Bugbird, David A. Hanley, and Steven K. Boyd. 2025. "Canadian Adult Reference Data for Body Composition, Trabecular Bone Score and Advanced Hip Analysis Using DXA." *Journal of Clinical Densitometry* 28 (1): 101535. https://doi.org/10.1016/j.jocd.2024.101535.

Abid, Noor, **Liam Pond**, and Svetlana Yanushkevich. 2024. "Causality Exploration in Modeling Engineering Student Satisfaction." In *Proceedings of the 2024 IEEE Global Engineering Education Conference (EDUCON)*, 1–10. Kos, Greece. https://doi.org/10.1109/EDUCON60312.2024.10578860.

Anzum, Fahim, Ashratuz Zavin Asha, Lily Dey, Artemy Gavrilov, Fariha Iffath, Abu Quwsar Ohi, **Liam Pond**, Md Shopon, and Marina L. Gavrilova. 2024. "A Comprehensive Review of Trustworthy, Ethical, and Explainable Computer Vision Advancements in Online Social Media." In *Global Perspectives on the Applications of Computer Vision in Cybersecurity*, edited by Franklin Tchakounté and Marcellin Atemkeng, 1–46. Hershey, PA: IGI Global. https://doi.org/10.4018/978-1-6684-8127-1.ch001.

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
Final Essay Award, MAT335: Chaos, Fractals, and Dynamics, 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 *Trio Joliso*), 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

- Collaborated on the Cantus project, a database of medieval chant scores
- Developed chant playback features for the website
- Currently developing 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
- Manuscript in preparation for the 2025 International Conference on Wear of Materials

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
- Second author of a conference paper published in the Proceedings of 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
- Created a database by recording piano music of various genres for use in machine learning music information retrieval studies
- Presented research findings to other computer science labs at the University of Calgary
- Co-Authored a book chapter on computer vision advancements in online social media

Summer Student Researcher, University of Calgary

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

May 2023 – August 2023

- 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
- 3D printed a visualization of sound using OpenSCAD and Praat
- Presented bio-inspired pedagogical strategies in the 2023 Engineering Education Forum
- 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

- Developed statistical analysis software using GAMLSS, a package in R
- Second author of a publication in the Journal of Clinical Densitometry
- Received the Audience Choice Presentation Award in the McCaig Institute Summer Student Symposium

- Presented in the Biomedical Engineering Undergraduate Summer Student Symposium
- Helped to integrate code into the team's website, normative.ca

WORK EXPERIENCE

Freelance Solo and Collaborative Pianist

Calgary, AB, Toronto, ON, and Montréal, QC

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, Toronto, ON, and Montréal, QC

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 exams up to Level 8 Piano and Theory
- Fostered musical expression, robust technique, and strategic practice habits in piano students
- Taught and graded coursework for music theory students

COMMUNITY AND VOLUNTEERING

McGill Music Research Club

McGill University

September 2024 – Present

- Founded and independently managed a journal club focused on music research topics
- Invited guest speakers to present their research, fostering interdisciplinary engagement
- Secured financial support from the McGill Music Graduate Students' Society (MGSS) and the Centre for Interdisciplinary Research in Music Media and Technology (CIRMMT)
- Managed social media presence, including designing posters and running an Instagram account

PGSS Delegate, Music Technology Area Representative

Music Graduate Students' Society (MGSS), McGill University

September 2024 – Present

- Acted as a liaison between the Music Graduate Students' Society (MGSS) and Post-Graduate Students' Society (PGSS), communicating relevant updates and issues
- Advocated for music technology graduate students within the Department of Music Research
- Organized social events to foster community among music technology graduate students

Councillor

Post-Graduate Students' Society (PGSS), McGill University

September 2024 – Present

- Represented and advocated for music graduate students in the PGSS council
- Debated and voted on various initiatives and policies
- Provided critical input regarding a lawsuit between the PGSS and McGill University

Volunteer Medical Event Staff

Calgary, AB

August 2024

- Provided emergency medical event services at the Chasing Summer music festival
- Standard First Aid – Level C certification from Heart and Stroke Foundation (valid until Jan 27, 2027)
- Treated a variety of patients, including combative individuals and those experiencing severe serotonin toxicity from the use of illicit substances
- Fulfilled a variety of roles including medical tent care, triage, and roving
- Regular presenter in the Bow Valley Emergency Care Journal Club since September 2023

Volunteer Retirement Community Pianist

Calgary, AB, and Toronto, ON

March 2012 – May 2023

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

LANGUAGES

English: Native
French: Upper-intermediate (CEFR B2, self-evaluated)
Italian: Lower-intermediate (CEFR B1, self-evaluated)

HOBBIES

Rock Climbing · Guitar · Powerlifting · Chess · Fencing · Language Learning