

WILLIAM STEIDL

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EDUCATION

Icahn School of Medicine at Mount Sinai – New York City, NY <u>M.D.</u> Program <u>Relevant coursework:</u> Anatomy; Molecular, Cellular, and Genomic Foundations; General Pathology; Immunology	2021 –
University of Cambridge – Cambridge, England <u>MPhil.</u> in Music (Center for Music and Science)	2020 – 2021
Princeton University – Princeton, NJ <u>B.A.</u> in Molecular Biology <u>Certificate</u> in Jazz Studies <u>GPA:</u> 3.86 <u>Relevant coursework:</u> Molecular Biology, Organic Chemistry, Genetics, Laboratory in Molecular Biology, Biochemistry, Cell & Developmental Biology	2016 – 2020
Cape Elizabeth High School Valedictorian, National Merit Scholar, National AP Scholar, Harvard Book Award recip.	2012 – 2016

AWARDS AND ACCOMPLISHMENTS

FlexMed Early Admittee to Icahn School of Medicine at Mount Sinai Awarded after sophomore year of college for a demonstrated passion for music and medicine and for an interest in music's potential as a form of physical therapy in clinical settings.	August 2021
Molecular Biology Department Undergraduate Research Funding Award Awarded for research on how specific clinical mutations influence RASopathy development.	Spring 2019
Princeton University Junior Thesis, A: "Investigation of the Effect of <i>ppp1cb</i> Clinical Mutations on Zebrafish Embryo Phenotype and Regulation of the Ras/MAPK Signaling Pathway."	Spring 2019
"Commitment to Excellence" Citizenship Award: 1 of 2 students awarded for "demonstrated passion resulting in achievement of excellence widely recognized by others." Voted by Cape Elizabeth High School peers and teachers for music composition	Spring 2015
4 High School Academic Excellence Awards: AP Biology, AP US History, Honors Pre-Calculus, Honors English (2 years).	2013 – 2016

WORK AND RESEARCH EXPERIENCE

Music Therapy Research, University of Cambridge Center for Music and Science Received funding for dissertation research project investigating a clinical, research-based form of music therapy designed to help those with neurological diseases retrain walking patterns. My research examined how different auidal cue types influence beat entrainment in non-disease-state participants as a proof-of-concept for future research involving disease-state participants.	2020 – 2021
Rebecca Burdine Lab, Princeton Department of Molecular Biology: <i>Research Internship</i> Conducted independent research for my senior thesis to understand the influence of the Ras/MAPK gene <i>PPP1CB</i> on the development of RASopathy in human patients. Generated mutant zebrafish lines via CRISPR technology to investigate how knocking out <i>ppp1cb</i> influences vertebrate development.	June 2019 – August 2019
MedRhythms: <i>Business Development Internship</i> A medical device startup that uses neurologic music therapy to help stroke and Parkinson's patients retrain their gaits. Led presentations to clinicians and stroke support groups detailing company and product. Ran device testing sessions during	June 2018 – August 2018

which I assisted stroke survivors as they helped test the device. Worked with the President and CEO in overseeing the design of the clinician web application and communicated with clinicians to gain their feedback. Portland, ME.

Volkhard Lindner Lab, Maine Medical Center Research Institute: *Research Internship* **June 2017 – August 2017**
Worked with Principal Investigator Volkhard Lindner to clarify the function of the *cthr1* hormone gene. Principal duties: inducing differentiation in cell cultures, performing mini preps, and running lab's PCR reactions. Scarborough, ME.

LEADERSHIP AND MUSIC ACTIVITIES

East Harlem Health Outreach Partnership Ophthalmology Clinic (Mount Sinai) *Clinic Manager* **2021 –**
For this free ophthalmology clinic for Spanish-speaking residents of East Harlem, I recruit attending physicians and residents to volunteer for the clinic dates; I enlist senior clinicians to speak with patients; I organize for Spanish-speaking interpreters to be present at the clinic; I interface with patients and screen them for COVID-19 prior to their visits, with the help of an interpreter; I schedule appointments, check patients in and out, and ensure that the clinic runs smoothly.

East Harlem Health Outreach Partnership (Mount Sinai) *Junior Clinician* **2021 –**
I work alongside senior clinicians in the process of meeting with patients and taking medical histories and vitals. I also interface with attending physicians in the process of updating them on the current medical status of patients. This process involves asking questions to patients via a Spanish-speaking interpreter.

Icahn School of Medicine Music Committee **2021 –**
As a member of this committee, I discuss with faculty and administrative officials about ways to expand access to music opportunities for students at the Icahn School of Medicine. This includes identifying practice and performance spaces and recruiting students to perform for school events such as graduations.

Changemakers Program, University of Cambridge, England (Homerton College) **2020-2021**
Chosen for this selective program by application. Worked with students and alumni of different disciplines on activities designed to develop leadership and entrepreneurial thinking. During two virtual residentials, we worked in groups to discuss practical, innovative solutions to important global problems.

Music Director, Shere Khan, Princeton University **2018 – 2019**
Co-Ed A Cappella group, organized and conducted all rehearsals for a group of 22 students. Coordinated and personally oversaw the recording of six new songs for the group's upcoming album. Conducted and curated set lists for all performances.

Featured Performer and Arranger, Jazz Vocal Collective, Princeton University **2017 – 2019**
As Trombonist, Vocalist, and Arranger, performed alongside Grammy-nominated jazz composers and vocalists like Nnenna Freelon, Theo Bleckmann and Darmon Meader in this departmental group.

SERVICE

Serenity Hospice: *Volunteer, Guitarist/Vocalist* **2019**
Traveled to hospice centers in central New Jersey for 4 hours a week to visit with, provide emotional support to, and play music for terminally ill patients.

Companion to primary progressive MS patient, Princeton University **2019**
Traveled by train to his house every other week to help with daily tasks and provide companionship. He has primary progressive MS, and he has lost motor function everywhere but his face. I spent time with him and talked with him about physics among other topics, since he is a former particle physicist.

Princeton Music Outreach: *Guitarist and Vocalist* **2017 – 2019**
Traveled to local nursing homes with other Princeton musicians to perform music for elderly nursing home patients and build personal connections with them.

Chosen as a *Natural Helper* to offer peer support **2012 – 2016**
One of four first-year high school students chosen by a school-wide, anonymous student survey to be a student advocate with the goal of improving the school climate.