

Christian M. Denis

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GOALS

I would like to be part of a stimulating team pursuing physics related goals, and, hopefully, bring my own contribution. I am dedicated and a fast-learner. If given a task, I can work in an autonomous manner as well as in a team. The two things that captivate me the most are: the solving of elegant problems and the execution of creative (possibly artistic) tasks.

EDUCATION

McGill University, Montréal

Honours Physics (B. Sc. A)

Projected Graduation: Fall 2022

CUM GPA : 3.96/4.00

John Abbott College, Ste-Anne de Bellevue

Arts and Sciences (DEC)

May 2019

R-Score : 33.939

Collège Ste-Anne de Lachine, Lachine

Concentration Musique (DES)

July 2017

General Average : 89%

SKILLS

Languages (spoken and written): French, English

Computer Skills: Solid programming skills in Python and Julia. Knowledgeable with LaTeX, Mathematica, JavaScript, HTML, CSS and Matlab. Competent with programs such as the Office Suite from Microsoft, GIMP, Pages (Apple) and Overleaf.

Data Analysis: Usage of Python, Julia and other statistical tools to analyze data

Driver's License: Class 5 Permit (Canada)

EXPERIENCE

McGill Physics: Undergraduate Summer Intern

Summer 2021

Internship as research assistant at McGill University within Paul François' theoretical biophysics research group. Worked on numerical computations for non-linear oscillators and 2D bifurcation diagrams (mainly Arnold Tongues) for variations of the radial isochron clock. This was applied to the modelling of the somite segmentation clock.

Phytronix Technologies: Research Assistant

Summer 2020

Internship as research assistant at Phytronix technologies. Worked on the data analysis of a FAIMS system for the doctoral thesis of Johnathan Rochon (Université Laval, QC, Canada). Assisted the R&D department in the development of an automated pipetting robot. Used mass spectrometer to carry out a variety of tests. This involved a lot of Python programming for both the data analysis and the robotic manipulations.

John Abbott College: Physics Tutor

2018 - 2019

Physics tutor for classes: NYA-Mechanics, NYB-Electricity and Magnetism and NYC-Waves and Optics

Kruger Packaging: Student Worker

June 2019 - August 2019

"Pillar" in the cardboard manufacturing process. Industrial equipment manipulation.

Hydro Extrusion: Student Worker

June 2018 - August 2018

Mainly, usage of saws to cut aluminium. Heavy weights manipulation in a high-temperature environment.

École de ski Mont-Blanc: Ski Instructor

Winter 2016

Ski instructor, mainly for young kids

AWARDS AND GRANTS	SURA - Dixie Park Science Undergraduate Research Award	2021
	4 000 \$ grant from donors, for undergraduate summer research.	
	McGill Faculty of Science Scholarship - Dean's Honour List	2020
	Summer Internship Grant From BioTalent Canada	2020
	7 000 \$ grant for undergraduate summer research.	
	2nd Position at John Abbott College at CAP exams	2019
	Certificat du Mérite en histoire pour résultat scolaire exceptionnel	2017
	Prix Coup de cœur francophone (song lyrics)	2017
	Méritas d'excellence au collège Ste-Anne in a variety of classes 2012 - 2017	
ACTIVITIES AND INTERESTS	Concours Soliste de Victoriaville (Provincial Music Contest)	2015
	Bronze, Clarinet	
	Concours Soliste de Victoriaville (Provincial Music Contest)	2013
	Silver, Clarinet	
	Executive Member of TVM (Student Television at McGill)	2021 - Now
	TVM is a student organization that produces video media, such as shorts, documentaries, and various other projects.	
	Member of the McGill Brewing Club	2021 - Now
	The McGill Brewing Club allows its members to have access to brewing equipment for the production of Kombucha, Beer and other fermented beverages.	
	Participant in the 2020 McGill Physics Hackathon	2020
Creation of a generative artworks using random walks and weather data as seed. (https://github.com/soudk/PyDinsky/tree/main/src)		
	Member of the McGill Visual Arts Society	2020 - Now
	The McGill Visual Arts Society organizes art-themed events and workshops.	
	Crater Sketching Workshop	2019
	Crater sketching workshops given in partnership with the RASC (Royal Astronomical Society of Canada)	
	John Abbott College Space Club	August 2018 - May 2019
(Vice-President) Organization of weekly meetings and construction of a telescope.		
	Music recording and composition	2015 - now
	Recording and composition of soundtracks and of studio albums.	
	Many Travels More than 40 countries, including a year-long trip around the world (2013-2014). I completed my second year of High-School autonomously.	

DISCOGRAPHY	“The Sunset Experiment” (as Chris Mauden)	2020
	Music EP, composed, recorded, produced, mixed, mastered and published	
	“T.H.E.C.O.R.O.N.A” (as Chris Mauden)	2020
	Music EP, composed, recorded, produced, mixed, mastered and published	
	“Differential” (as Chris Mauden)	2019
	Music Album, composed, recorded, produced, mixed, mastered and published	
FILMOGRAPHY	“Just A Kid” (Short Documentary)	2021
	Original Music Composer	
	“Bloom” (Short)	2020
	Original Music Composer	
	“Philippe” (Short Documentary)	2018
	Original Music Composer	
	“ShadowChasers 2017: The Great American Total Solar Eclipse”	2018
	Original Music Composer	