

**Christian M. Denis**  
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**Location:** Montréal, Canada

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*I'm currently a physics (biophysics) PhD student at Université de Montréal. My main projects are oriented in immunology and developmental biology. I'm also involved in various artistic projects, mainly as a musician/composer.*

<b>EDUCATION</b>	<b>Université de Montréal, Montréal</b> Physics (PhD) May 2028	CUM GPA: 4.30/4.30
	<b>Université de Montréal, Montréal</b> Physics (M. Sc.) – Dean's Honor List May 2025	CUM GPA: 4.30/4.30
	<b>McGill University, Montréal</b> Honours Physics (B. Sc.) December 2022	CUM GPA: 3.94/4.00
	<b>John Abbott College, Ste-Anne de Bellevue</b> Arts and Sciences (DEC) May 2019	R-Score: 33.939
<b>SKILLS</b>	<b>Languages (spoken and written):</b> French, English <b>Computer Skills:</b> Solid programming skills in Julia, Python and Mathematica. Knowledgeable with LaTeX, JavaScript, HTML, CSS and Matlab. Competent with programs such as the Office Suite from Microsoft, GIMP, Pages (Apple) and Overleaf. Solid audio-editing and producing skills using Ableton and Reason. <b>Data Analysis:</b> Usage of Python, Julia and other statistical tools to analyze data <b>Licenses:</b> Driver's Licence – Class 5 Permit (Canada), Scuba Diving License – “Open Water Diver” (PADI), <u>Ski Instructor License</u> – CSIA Level 1 Certification (Canada)	
<b>EXPERIENCE</b>	<b>EMBL (Heidelberg, Germany): Trainee</b> Internship in Alexander Aulehla's lab (Developmental biology).	<b>Summer 2024</b>
	<b>EMBL (Heidelberg, Germany): Trainee</b> Internship in Alexander Aulehla's lab (Developmental biology).	<b>Summer 2023</b>
	<b>Université de Montréal: Research Assistant</b> Research assistant in Paul François' lab (Biophysics).	<b>Winter 2023</b>
	<b>McGill Physics: Undergraduate Summer Intern</b> Research assistant in Paul François' lab (Biophysics).	<b>Summer 2022</b>
	<b>McGill Physics: Undergraduate Summer Intern</b> Research assistant in Paul François' lab (Biophysics).	<b>Summer 2021</b>
	<b>Phytronix Technologies: Research Assistant</b> Research assistant at Phytronix technologies in mass-spectrometry.	<b>Summer 2020</b>
	<b>Math, Physics and Chemistry Tutor</b>	<b>2018 - Now</b>
	<b>Summer Jobs</b> Kruger Packaging: student factory worker (2019), Norsk Hydro: student factory worker (2018), McDonald's: kitchen employee (2017), House maintenance work (2016)	<b>2016 - 2019</b>

<b>PUBLICATIONS</b>	<b>Dynamical model and geometric insights in the discontinuity theory of immunity</b> <a href="#">Denis CM</a> , Mochulska V, Dagher M, Verbavatz V, Bourassa FXP, Altan-Bonnet G, François P. bioRxiv (preprint). 2025.	
	<b>Unclocklike Oscillators with Frequency Memory for the Entrainment of Biological Clocks</b> <a href="#">Denis CM</a> , François P. PRX Life 2, 043008. 2024.	
	<b>Arnold tongue entrainment reveals dynamical principles of the embryonic segmentation clock</b> Layague Sanchez PG, Mochulska V, <a href="#">Denis CM</a> , Mönke G, Tomita T, Tsuchida-Straeten N, Petersen Y, Sonnen KF, François P, Aulehla A. eLife 11:e79575. 2022.	
<b>AWARDS AND GRANTS</b>	<b>Dean's Honor List (UdeM)</b>	<b>2025</b>
	Dean's honor list for Master's degree at Université de Montréal	
	<b>3rd CIB Symposium: Best Oral Presentation Award</b>	<b>2025</b>
	500 \$ – Center for Innovative Biomedicine (CIB) Scientific Symposium, Université de Montréal	
	<b>FRQNT Graduate Scholarship</b>	<b>2025</b>
	100 000 \$ — Québec Provincial Graduate Scholarship — PhD program.	
	<b>FRQNT Graduate Scholarship</b>	<b>2024</b>
	20 000 \$ — Québec Provincial Graduate Scholarship — Master's program.	
	<b>NSERC Graduate Scholarship</b>	<b>2024</b>
	27 000 \$ — Canada Graduate Scholarship — Master's program.	
	<b>BLUE Fellowship</b>	<b>2024</b>
	3 000 \$ — McGill University, Building 21.	
	<b>McGill McGameJam</b>	<b>2023</b>
	2nd Position. I mainly worked on audio production for our video game during the event. Access the game <a href="#">here</a> .	
	<b>NSERC USRA Research Award</b>	<b>2022</b>
	6 000 \$ grant for undergraduate summer research.	
	<b>SURA - Dixie Park Science Undergraduate Research Award</b>	<b>2021</b>
	4 000 \$ grant from donors, for undergraduate summer research.	
	<b>Summer Internship Grant From BioTalent Canada</b>	<b>2020</b>
	7 000 \$ grant for undergraduate summer research.	
	<b>2nd Position at John Abbott College at CAP exams</b>	<b>2019</b>
	<b>Certificat du Mérite en histoire pour résultat scolaire exceptionnel</b>	<b>2017</b>
	<b>Prix Coup de cœur francophone (song lyrics)</b>	<b>2017</b>
	<b>Concours Soliste de Victoriaville (Provincial Music Contest)</b>	<b>2013-2015</b>
	Silver - Clarinet (2013), Bronze - Clarinet (2015)	

<b>ACADEMIC INVOLVEMENT</b>	<b>Organization of the 2024 BSC Meeting</b>	<b>2024</b>
	I participated in the organization committee of the 2024 Biophysical Society of Canada (BSC) Meeting. I also co-chaired the “trainee symposium” part of the event.	
	<b>Organization of “The Late-Night Blackboard” events</b>	<b>2023</b>
	I organized a series of evenings with “chalkboard-talks” presentations explaining a topic in any field to a general audience. Held at <u>Building 21</u> (McGill).	
	<b>VP Brewing – McGill Brewing Club</b>	<b>2022</b>
	<b>TVM Admin Position – Music Composer</b>	<b>2022</b>
	<b>Executive Member of TVM (Student Television at McGill)</b>	<b>2021 - 2022</b>
	<b>VP - John Abbott College Space Club</b>	<b>August 2018 - May 2019</b>
	<b>Barista Volunteer (“La Planck”, Université de Montréal)</b>	<b>2025 – now</b>
	Part-time volunteer at the student-ran physics coffee shop “La Planck”.	
<b>SOCIAL INVOLVEMENT AND VOLUNTEERING</b>	<b>Hospital Volunteer (Jewish General Hospital, Montreal)</b>	<b>2025 – now</b>
	Part-time volunteer at the ER.	
	<b>Organization of “@agora_jeanne_mance” events</b>	<b>2025 – now</b>
	I organized weekly inclusive and accessible “agora” events in Jeanne-Mance Park, an effort to combat the loneliness epidemic. A mission statement can be found <u>here</u> .	
	<b>Organization of Crater Sketching Workshops</b>	<b>2019</b>
<b>DISCOGRAPHY</b>	<b>Organization of musical performances for the Salvation Army</b>	<b>dec. 2014</b>
	<b>“Continental” (as Chris Mauden)</b>	<b>2025</b>
	Music album, composed, recorded, produced, mixed, mastered and published. <u>Link</u> .	
	<b>“Boxberg” (as Chris Mauden)</b>	<b>2024</b>
	Music EP, composed, recorded, produced, mixed, mastered and published. <u>Link</u> .	
	<b>“Should’ve Stayed Home Tonight” (as Chris Mauden)</b>	<b>2024</b>
	Music EP, composed, recorded, produced, mixed, mastered and published. <u>Link</u> .	
	<b>“Lab Day 23 (feat. Jona Rada &amp; Ali Seleit)” (as Chris Mauden)</b>	<b>2023</b>
	Music single, composed, recorded, produced, mixed, mastered and published. <u>Link</u> .	
	<b>“LMP1” (as Chris Mauden)</b>	<b>2022</b>
	Music single, composed, recorded, produced, mixed, mastered and published. <u>Link</u> .	
	<b>“The Sunset Experiment” (as Chris Mauden)</b>	<b>2020</b>
	Music EP, composed, recorded, produced, mixed, mastered and published. <u>Link</u> .	
	<b>“T.H.E.C.O.R.O.N.A” (as Chris Mauden)</b>	<b>2020</b>
	Music EP, composed, recorded, produced, mixed, mastered and published. <u>Link</u> .	
	<b>“Differential” (as Chris Mauden)</b>	<b>2019</b>
	Music Album, composed, recorded, produced, mixed, mastered and published. <u>Link</u> .	
	<b>“Signals” (as Chris Mauden)</b>	<b>2018</b>
	Music single, composed, recorded, produced, mixed, and mastered. Made using samples of the cosmic microwave background noise. <u>Link</u> .	

VIDEOGRAPHY	“Maman, j’étais pirate” (Short)	2025
	Original Music Composer. <a href="#">Link to video.</a>	
	“Building 21: McGill’s Interdisciplinary Idea Lab” (Promo video)	2024
	Original Music Composer. <a href="#">Link to video.</a>	
	“I Worry About My Teeth” (Short)	2024
	Original Music Composer, Sound Recordist	
	“Posing in Bondage” (Short)	2023
	Original Music Composer <a href="#">Awarded “Best Student Short” at the 2023 Cannes Short Film Festival.</a>	
	“Reminiscence Of The Fading Memories” (Short)	2023
	Original Music Composer. <a href="#">Link to video.</a>	
MULTIMEDIA	“Just A Kid” (Short Documentary)	2022
	Original Music Composer. <a href="#">Link to NFB page.</a>	
	“Love Triangle” (TVM Short)	2022
	Original Music Composer	
	“A Quirky Indie” (TVM Short)	2021
	Original Music Composer, Cameraman, Actor	
	“Bloom” (Short)	2020
	Original Music Composer	
	“Philippe” (Short Documentary)	2018
	Original Music Composer. <a href="#">Link to video.</a>	
ACTIVITIES AND INTERESTS	“ShadowChasers 2017: The Great American Total Solar Eclipse”	2018
	Original Music Composer	
	“Music from modelling the segmentation clock” (Projection)	2024
	Procedural projections reactive to music. Music samples from numerical simulations of <a href="#">a model for the segmentation clock</a> . Made for a BLUE fellowship at <a href="#">B21</a> (McGill).	
	“Raccoon raider & the temple of thrash” (Video Game)	2023
	Original Music Composer and sound designer. Video game project done at the McGame-Jam 2023 (McGill University). <a href="#">Link to project.</a>	
	“Scène de la mer” (VR)	2022
	Original Music Composer. <a href="#">VR project</a> done at <a href="#">B21</a> (McGill University).	
	NAS management	2025 – now
	Media digitization and archiving/organization (HDD, VHS, DVD, Blurays, etc.)	
	River Surfing	2025 – now
	Home-fermentation (Beer, Kombucha, Wine, Yogurt, etc.)	2022 – now
	Coding projects	2021 – now
	Find some examples on <a href="#">this page</a> of my personal website.	
	Music recording, composition and production	2015 – now
	Travelling 50+ countries visited ( <a href="#">list</a> ). A year-long trip around the world (2013-2014).	