

MACKENZIE KING SCHOLARSHIPS — APPLICATION FORM

Application for (check): <input type="checkbox"/> Open Scholarship <input type="checkbox"/> Travelling Scholarship <i>You may apply for both, but please note that the Travelling Scholarship is only tenable for graduate study in the fields of international relations or industrial relations at a university in the U.K. or the U.S.A.</i>														
Surname, given names, and (preferred pronouns): _____														
Current mailing address: _____ _____														
Phone #:	E-mail:													
Permanent mailing address (if different): _____ _____														
Phone #:	E-mail:													
<input type="checkbox"/> Canadian citizen <input type="checkbox"/> permanent resident <input type="checkbox"/> other														
Knowledge of language, other than English: I read: _____														
I speak: _____ I write: _____														
Post-secondary education: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;">University</th> <th style="text-align: left; width: 35%;">Degree or diploma</th> <th style="text-align: left; width: 35%;">Date conferred or expected</th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>			University	Degree or diploma	Date conferred or expected	_____	_____	_____	_____	_____	_____	_____	_____	_____
University	Degree or diploma	Date conferred or expected												
_____	_____	_____												
_____	_____	_____												
_____	_____	_____												
Supplementary information on academic achievements and experience (please attach as sheet A) : <i>Please indicate (1) any undergraduate and graduate awards you have received (please give the name, the year(s) of tenure and the annual value), (2) any work experience (professional, business) related to your field of study, and (3) your publications relevant to your field of study. Sheet A may be more than one page.</i>														
Postgraduate studies towards which Mackenzie King Scholarship is to be applied: Proposed university(ies): _____ Have you applied to this (these) university(ies)? _____ Have you already been accepted? _____ Proposed field of study: _____ _____ Degree to be obtained: _____ Expected year of graduation: _____ Date Mackenzie King Scholarship tenure is to begin, if granted: _____														
Names and e-mail addresses of those you have asked to write letters of reference: 1. _____ 2. _____ 3. _____														
Personal statement (please attach as sheet B): <i>On an attached sheet, please describe your academic interests, extracurricular activities, and the program of studies you intend to pursue, and outline your plans for a career. Your statement must be readily understandable by someone outside your discipline, and must be complete in 600 words.</i>														
X Signature of applicant: <i>Christophe Rouleau-Desrochers</i>		Date: _____												

Note: This application (including sheets A and B mentioned above) and all academic transcripts must be received by February 1 (or the following Monday if the 1st is a Saturday or Sunday) in the Faculty of Graduate Studies of your “home” university (the Canadian university from which you received your most recent degree or where you are currently enrolled—see information sheet). All envelopes should be marked “Mackenzie King Scholarships Competition.” The three letters of reference must not be disclosed to the candidate and may be sent directly by the referee in digital form (signed and scanned) to the home university.

CHRISTOPHE ROULEAU-DESROCHERS

2424 Main Mall, Vancouver (BC)
(514) · 431 · 4835 ◊ christophe.rouleaudesrochers@ubc.ca

EDUCATION

University of British Columbia M.S. in Forestry	2024 - Present
Université du Québec à Montréal B.S. in Biology Minor in Ecology Overall GPA: 4.30/4.30 (Honors)	2021-2024
Université du Québec à Montréal Certificate in Ecology Overall GPA: 4.19/4.30	2020-2021

AWARDS

Scholarship Cocodet en Sciences (\$21375)	2023-2024
NSERC Undergraduate Student Research Awards (\$6000)	2022-2023-2024
UQAM Dean's List of Excellence of the Faculty of Science	2023
Canadian Forest Sector Workforce Diversity Undergraduate Supplement (\$5000)	2023
FRQNT Undergraduate Student Research Awards Supplement (\$1500)	2022-2023-2024
Scholarship Jeanne-D'Arc et Bertin-Trottier in sciences (\$1500)	2023
Scholarship from Syndicat des professeurs de l'UQÀM (\$1500)	2023
Scholarship from Fondation Familiale Trottier (\$1500)	2022
Scholarship from TD Bank (\$2000)	2022

PUBLICATIONS

- Wolkovich, E.M., Rouleau-Desrochers, C., Garcia de Cortazar-Atauri, I., Walker, M. A., Lacombe, T. (2023). Building a more predictive model of Terroir for the Anthropocene. Submitted to *Plants, People, Planet*
- Rouleau-Desrochers, C., Patry, É., Gingras, G., Ucler, J., Vézina-Doré, M., Paillé, O., Moghaddam, Y. Y. (2024) Un été parti en fumée. *Le Point Bio* (not peer-reviewed)

RESEARCH AND TEACHING EXPERIENCE

UBC Faculty of Forestry <i>Graduate Teacher Assistant</i>	2024-Present <i>University of British Columbia, Canada</i>
· FRST-304 Forest stewardship in a changing climate taught by Suzanne Simard for 1217 students (2024)	
· FRST-303 Principles of Forest Sciences taught by Sally Aitken for 1962 students (2024)	
Temporal Ecology Lab <i>USRA Undergraduate Researcher</i>	2023-2024 <i>University of British Columbia, Canada</i>
· Ran a research project on the phenological and growth responses of trees to longer growing seasons (2024)	

- Involved in a research project on the phenological responses of different tree species to climate change (2023)

Ecological Cascades Lab

2022

Undergraduate Research Assistant

University of Queensland, Australia

- Involved in a remote research project in Australian Wet Tropics rainforests examining species interactions.

Pierre Drapeau's laboratory

2021- 2024

Undergraduate Research Assistant

Université du Québec à Montréal, Canada

- Ran a project on Pileated woodpecker's nesting phenology (2022-2023).
- Studied the vital domain and habitat occupation of Pileated woodpecker in mixed boreal forest (2022).
- Involved in a project studying woodpecker's use of public electric posts (2021).

VOLUNTEERING AND TUTORING

Programme Allô

2022- 2024

Volunteer

Université du Québec à Montréal, Canada

- Guided twelve international students on the university campus and provided them with useful information and resources.

UQÁM's Faculty of Science

2022- 2024

Tutor

Université du Québec à Montréal, Canada

- Helped 7 first-year students with their Biochemistry class.

WORK EXPERIENCE

Fromm Winery (Blenheim, New-Zealand)

2019-2020

Viticulturist

Restaurant Pastel (Montréal, Canada)

2018-2019

Assistant-Sommelier

SKILLS AND INTERESTS

Computer Languages

R, LaTeX, Markdown, Bash

Softwares

Github, Qgis, R, Lightroom, Illustrator, OfficeSuite

Personal Statement

Christophe Rouleau-Desrochers

January 30, 2025

In the fall of 2020, I returned to my studies after several years in the restaurant industry, where I trained and worked as a sommelier. Recognizing that selling wine in restaurants was too far removed from wine production, I travelled to New Zealand in 2019 to work in a small-scale organic vineyard. Over six months, I realized that my deep-rooted connection to nature—shaped by my father’s work as a maple syrup producer—was stronger than I had imagined. This experience led me to enroll in the Certificate in Ecology program at the Université du Québec à Montréal, which I completed in June 2021.

My academic and professional journey has shaped my character by developing qualities such as boundless curiosity and rigour, which drive me to continuously improve, expand my knowledge, and refine my study techniques. After working as a research assistant on Pileated Woodpecker ecology under the supervision of Pierre Drapeau, I joined the Temporal Ecology Lab in 2023, where I have since honed my research skills under the guidance of Elizabeth Wolkovich.

Fueled by an insatiable thirst for knowledge and a commitment to addressing the climate crisis, I have sought to broaden my research experience. In the summer of 2023, I contributed to Frederik Baumgarten’s postdoctoral project studying the effects of climate change on tree growth and phenology (the study of recurring life history events). After witnessing my newly acquired skill set and leadership qualities, Drs. Wolkovich and Baumgarten offered me the opportunity to take over the research project in 2024—an offer I gratefully accepted. This project is one of three that will form the foundation of my Master’s thesis. It presents a significant challenge, requiring me to coordinate complex experiments and manage a team of two to four undergraduate research assistants.

During my limited free time, I spend as much time outdoors as possible. Whether hiking or on a cycling expedition, ornithology is always at the back of my mind. Since joining Dr. Drapeau’s lab, I have developed a deep passion for birds and love to travel to observe, identify, and photograph them. For the past two years, I have combined my long-standing passion for photography with my growing interest in wildlife. As a result, I never go anywhere without my camera and binoculars!

I am currently pursuing a Master of Science in Forestry, which I plan to complete by 2026. However, because I truly love my work and feel fulfilled in my lab, I intend to transfer my Master’s into a PhD. I believe my ongoing projects have the potential to be expanded and diversified to address a fundamental question in climate change research: how will tree growth and phenology be impacted by rising temperatures and abiotic stressors?

As mentioned earlier, my immediate goal is to enroll in a PhD program at UBC. With the aspiration of becoming a university professor, I plan to pursue one or two postdoctoral fellowships after completing my PhD. Before that, I aim to broaden my research experience by collaborating with international labs that share my research interests. Janneke Hille Ris Lambers from ETH Zurich and Neil Pederson from Harvard University are two researchers I would love to work with. The McKenzie scholarship would greatly enhance my research outreach by facilitating international collaborations and conference attendance.

Rouleau-Desrochers Christophe
6880 RUE MARQUETTES
MONTREAL QC
H2G 2Y8

Issued on
July 23, 2024

Permanent code
ROUC22019809

Program Bachelor's degree in Biology, Problem-Based Learning (6713)

Term	Code	Credits	Title	Gr. Avg.	Grade
French Proficiency Examination					S
Courses taken for the Ecology Certificate					
	BIO1050	3	ANIMAL BIOLOGY		A+
	BIO1700	3	BIODIVERSITY CONSERVATION		A+
	BIO2611	3	PLANT BIOLOGY		A+
	BIO3100	3	GENERAL ECOLOGY		A+
	BIO3500	3	ECOLOGY AND DATA ANALYSIS SEMINAR		A+
	BIO6821	3	WILDLIFE MANAGEMENT		A+
F-2021	HIS4592	3	HISTORY OF INDIGENOUS PEOPLE OF CANADA (UP TO THE 19 TH CENTURY)		A+
F-2021	PHI3017	2	PHILOSOPHY OF BIOLOGICAL SCIENCES (2 CR.)		A+
Courses taken since admission into the program					
W-2022	BIA1002	1	INTRODUCTION TO THE STUDY OF THE CELL (1 CR.)		S
W-2022	BIA1401	4	DIVERSITY OF MICRO-ORGANISMS (4 CR.)		A+
W-2022	BIA2001	5	CELLULAR BIOLOGY AND BIOCHEMISTRY (5 CR.)		A+
W-2022	BIA2002	4	GENE REPLICATION AND EXPRESSION (4 CR.)		A+
F-2022	BIA2101	5	PLANT METABOLISM AND REGULATION (5 CR.)		A+
F-2022	BIA2201	6	ANIMAL AND HUMAN REGULATION (6 CR.)		A+
F-2022	BIA2501	4	IMMUNOLOGY (4 CR.)		A+
W-2023	BIA1200	2	EVOLUTION AND NATURAL SELECTION (2 CR.)		A+
W-2023	BIA1700	6	ORGANISMS AND THE ENVIRONMENT (6 CR.)		A+
W-2023	BIA2600	4	ENVIRONMENTAL INTERACTION (4 CR.)		A+
W-2023	FSM3300	6	INTRO TO EXPERIMENTAL RESEARCH OR PROFESSIONAL PRACTICE (6 CR.)		A+
F-2023	BIA3010	9	METHODOLOGY IN ECOLOGY (9 CR.)		A+
F-2023	BIA3510	4	SPECIALIZATION I IN ECOLOGY (4 CR.)		A+
F-2023	COM1859	3	ISSUES AND PRACTICES OF SCIENTIFIC COMMUNICATION		A+
W-2024	BIA3511	5	SPECIALIZATION II IN ECOLOGY (5 CR.)		A+

***** END OF TRANSCRIPT *****

Credits awarded: 91.0

GPA: 4.30/4.3

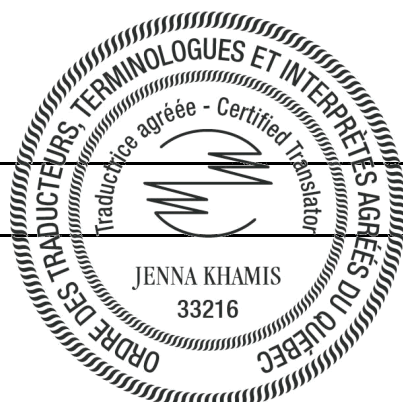
Degree: Bachelor of Science (BSc)

Date awarded: June 20, 2024

Certified copy
 Registrar

[Signature]

July 23, 2024, by [initials]



EXPLANATORY NOTES

This note is meant to ensure a better understanding of official student progress as recorded on documents issued in French.

Academic file

Student's academic file, includes admission and registration information and degree conferment data as maintained by the Office of the Registrar, in accordance with existing University policies. Students may request a copy of the information kept in his or her file.

Transcript

A transcript is an official document presenting the cumulative academic record of a student's progress in the programme to which he or she has been admitted. It is prepared by the Office of the Registrar in accordance with the existing University policy.

Certified true copy

Students may request a certified true copy of their transcript or file. A certified true copy is issued by the Office of the Registrar. It bears the signature of the Registrar and the words "copie conforme". This document may be given directly to the student. If a transcript is sent to another institution, it bears the Official University Seal. A transcript with an official seal cannot be sent to the student.

Symbols used in this transcript

Symbol H

"H" indicates that the course does not taken toward degree. Credit is not included in the Cumulative Grade Point Average (CGPA).

Symbol I

"I" indicates that the course is Incomplete. The student has not yet met the course requirements, and final evaluation cannot be submitted.

Symbol K

"K" indicates the granting of credit based on a prior learning assessment which has been carried out in accordance with existing University regulations. Credit appears on the transcript and academic file.

Symbol L

"L" indicates a failed course or activity that has since been completed.

Symbol P

"P" indicates a prerequisite course. Grade is not included in CGPA.

Symbol R

"R" indicates that the grade is to be assigned at a later date.

Symbol W

"W" indicates an audit course or activity. Grade is not included in CGPA.

Symbol X

"X" indicates withdrawal with permission. Credit does not appear on the transcript or academic file.

Grade of S

"S" indicates that the course requirements have successfully completed. Credit granted, but not included in CGPA.

Grade of V

"V" indicates that the course has successfully completed at another institution under a specific agreement. Credit granted, but not included in CGPA.

Credit

Numerical value on the work that student must complete to attain specific course objectives.

Credits earned

"Credits earned" (crédits réussis) is the total number of credits earned towards fulfilment of programme requirements. It includes credits for successfully completed courses and those granted by advanced standing (equivalence). It excludes credit for prerequisite course work (P) and for courses not taken towards the degree (H).

Grading System prior to Fall 1992

A, B, C, and D.

Grading System as of Fall of 1992

A+, A, A-, B+, B, B-, C+, C, C-, D+, D.

Failed Course

A student who does not meet course requirements receives the letter "E" as the grade for that course. Credits for that course do not appear on the transcript.

Credit from another programme within the University

The words "Activité suivie dans le cadre ..." indicate that the activity has been completed while completing requirements for another programme. Credit for this activity has been assigned to the student's current programme.

Transfer Credits

The words "X Crédits intégrés au programme" indicate that the student has met certain programme requirements prior to admission.

Legend

ABS : Absence EXE : Advanced standing N.A. : Not applicable

Cumulative Grade Point Average

The cumulative grade point average (CGPA) is calculated as follows :

$$M = \frac{\sum P_i C_i}{\sum C_i}$$

Signification des symboles :

\sum = Combined total of
P = Numeric value assigned to letter grades
C = Number of credits assigned to courses for which the letter grade has a numeric value
i = Specific course or activity
M = Average

Numeric Values of Grades :

A+ = 4,3 A = 4,0 A- = 3,7 ; Excellent
B+ = 3,3 B = 3,0 B- = 2,7 ; Very good
C+ = 2,3 C = 2,0 C- = 1,7 ; Good
D+ = 1,3 D = 1,0 ; Pass
E = 0 ; Fail

Calculating the CGPA enrolled prior to September 1992

A new grading system was introduced in September 1992 (see grading system above). In accordance with policies accompanying the change, the CGPA of students who began their programme before September 1992 is calculated as follows :

$$M = \frac{\left\{ \left(\frac{\sum P_i C_i \text{ calculated before September 1992}}{\sum C_i} \right) \times \frac{4,3}{4,0} \right\} + \left\{ \frac{\sum P_i C_i \text{ calculated after September 1992}}{\sum C_i} \right\}}{\sum C_i}$$

Security Features

This transcript has been printed on paper with the following features :

- A chain pattern watermark should appear when the transcript is held up to a light source;
- Front :
 - the background is printed blue;
 - the words "Université du Québec à Montréal" are printed as a microline 7/8th inch below the top edge;
 - the word "COPIE" appears when the document is photocopied;
 - the paper will become discoloured where chemicals have been used to alter information;
 - the paper contains fluorescent fibres that are visible only under an ultraviolet light source.
- Overleaf :
 - grey vertical lines are printed on the back of the transcript.

If you have any doubts concerning the validity of this transcript, please contact :

Université du Québec à Montréal
Registrariat, Service aux clientèles universitaires
Case postale 8888, succursale Centre-ville
Montréal, QC, Canada
H3C 3P8

Tél.: (514) 987-3132



Translator's Declaration

Document: Université du Québec à Montréal Official Transcript—Christophe Rouleau-Desrochers

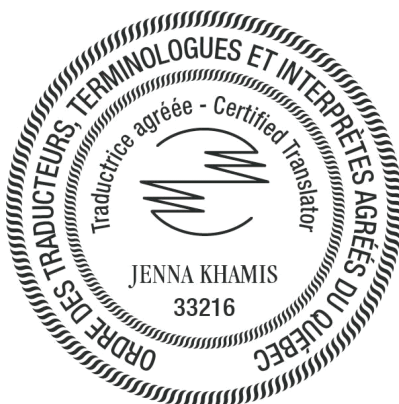
I, the undersigned, Jenna Khamis, Certified Translator from French to English and member in good standing of the *Ordre de traducteurs, terminologues et interprètes agréés du Québec* (OTTIAQ) (member no. 33216), hereby certify hereby declare that I did translate into English the attached French document and that, to the best of my knowledge, the translation accurately reflects the contents and meaning of the French original.

The translation was completed in accordance with the *Règles de pratique professionnelle de l'Ordre des traducteurs, terminologues et interprètes agréés du Québec* (OTTIAQ). Under these rules, the certified translator is required to comply with OTTIAQ's code of ethics and to follow a rigorous process when completing and revising the translation to provide reasonable assurance that the translation is an appropriate equivalent to the source text.

This certification is valid provided that no changes are made to the translation without my prior approval.

Certified at Montreal, Quebec on November 6, 2024

Jenna Khamis, C. Tr.



Rouleau-Desrochers Christophe
6880 RUE MARQUETTE
MONTREAL QC
H2G 2Y8

Date d'émission
23 juillet 2024
Code permanent
ROUC22019809

Programme : **baccalauréat en biologie en apprentissage par problèmes (6713)**

Trimestre	Sigle	Crédits	Titre	Moyenne du groupe	Résultat
			Test de maîtrise du français		S
Activités suivies dans le cadre du certificat en écologie					
	BIO1050	3	BIOLOGIE ANIMALE		A+
	BIO1700	3	CONSERVATION DE LA BIODIVERSITE		A+
	BIO2611	3	BIOLOGIE VEGETALE		A+
	BIO3100	3	ECOLOGIE GENERALE		A+
	BIO3500	3	SEMINAIRE EN ECOLOGIE ET ANALYSE DES DONNEES		A+
	BIO6821	3	AMENAGEMENT DE LA FAUNE		A+
AUT.2021	HIS4592	3	HISTOIRE DES AUTOCHTONES DU CANADA (JUSQU'AU XIX S.)		A+
AUT.2021	PHI3017	2	PHILOSOPHIE DES SCIENCES BIOLOGIQUES (2 CR.)		A+
Activités suivies depuis l'admission au programme					
HIV.2022	BIA1002	1	INITIATION A L'ETUDE DE LA CELLULE (1 CR.)		S
HIV.2022	BIA1401	4	DIVERSITE DES MICROORGANISMES (4 CR.)		A+
HIV.2022	BIA2001	5	BIOCHIMIE ET BIOLOGIE CELLULAIRE (5 CR.)		A+
HIV.2022	BIA2002	4	REPLICATION ET EXPRESSION DES GENES (4 CR.)		A+
AUT.2022	BIA2101	5	METABOLISME ET REGULATION DES VEGETAUX (5 CREDITS)		A+
AUT.2022	BIA2201	6	REGULATION ANIMALE ET HUMAINE (6 CR.)		A+
AUT.2022	BIA2501	4	IMMUNOLOGIE (4 CR.)		A+
HIV.2023	BIA1200	2	EVOLUTION ET SELECTION NATURELLE (2 CR)		A+
HIV.2023	BIA1700	6	ORGANISMES ET ENVIRONNEMENT (6 CREDITS)		A+
HIV.2023	BIA2600	4	INTERACTION ENVIRONNEMENTALE (4 CR)		A+
HIV.2023	FSM3300	6	INIT.A LA RECHERCHE EXPERIM.OU PRAT.PROF.(6CR)		A+
AUT.2023	BIA3010	9	METHODOLOGIE EN ECOLOGIE (9 CR)		A+
AUT.2023	BIA3510	4	SPECIALISATION I EN ECOLOGIE (4 CR)		A+
AUT.2023	COM1859	3	ENJEUX ET PRATIQUES DE LA COMMUNICATION SCIENTIFIQUE		A+
HIV.2024	BIA3511	5	SPECIALISATION II EN ECOLOGIE (5 CR.)		A+

----- FIN DU RELEVÉ -----

Crédits réussis : 91.0

Moyenne cumulative : 4.30/4.3

Grade : **bachelier ès sciences (B.Sc.)**

Date d'obtention : 20 juin 2024

Copie conforme au dossier
Registrataire

23 juillet 2024, par



ADVISING TRANSCRIPT

Surname:
Rouleau-Desrochers

Given Name:
Christophe

Student Number:
49411424

Date:
January 30, 2025

Note: Advising transcript is an unofficial record of your UBC academic history.

UBC Credentials									
None to date									
Transfer Credits									
None to date									
2024-25 Winter Session									
M.Sc., In Forestry (Vancouver)									
Term	Course	Credit Value	Course Title	% Grade	Grade	Credit Rec'd	Class Size	Class Avg	
1	BIOL_V 301	(3.0)	Biomathematics	78	B+	3.0	46	82	
1-2	FRST_V 549B	(12.0)	Master's Thesis		CIP				
2	CONS_V 310	(3.0)	Ecology in a Changing Climate		CIP				
2	FRST_V 507C	(3.0)	Topics in Forest Science						
Cumulative Totals									
Credits Attempted: 21.0 Credits Earned: 3.0 Average: 78.0%									
Sessional Average: 78.0%									
Credits Attempted = Passed Failed Withdrawn Incomplete									
21.0 3.0 0.0 0.0 18.0									

***** End of Record *****