

Christelinda Laureijs

Mount Allison University

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Education

MSc in Biology

MOUNT ALLISON UNIVERSITY

Supervisor: Dr. Karen M. Crosby

Sackville, NB

2026

BSc (Honours) in Biology, Minor in Biochemistry (4.3/4.3 CGPA)

MOUNT ALLISON UNIVERSITY

Thesis title: The effect of insulin on neuronal communication in the rat dorsomedial hypothalamus | Supervisor: Dr. Karen M. Crosby

Sackville, NB

2024

Grants

ResearchNB Graduate Scholarship (\$17,000)

PROVINCIAL: RESEARCH NEW BRUNSWICK

2024

Canada Graduate Scholarship (\$27,000)

NATIONAL: NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA (NSERC)

2024

Research New Brunswick Summer Studentship (\$8,864)

PROVINCIAL: RESEARCH NEW BRUNSWICK

2023

Independent Student Research Grant (\$8,000)

INSTITUTIONAL: MOUNT ALLISON UNIVERSITY

2023

Presentations

Canadian Association for Neuroscience

CHRISTELINDA LAUREIJS, DR. KAREN M. CROSBY

(Poster) Efficiently plot and analyze electrophysiology data with patchclampplotter

Toronto, ON

2025

Canadian Association for Neuroscience

DR. KAREN M. CROSBY, CHRISTELINDA LAUREIJS

(Poster) Insulin modulates glutamate transmission in the rat dorsomedial hypothalamus

Toronto, ON

2025

Dalhousie Conference on University Teaching and Learning

DR. KAREN M. CROSBY, CHRISTELINDA LAUREIJS

(Oral) Enhancing learning & collaboration with a classroom magazine project

Halifax, NS

2025

Spring into Teaching

DR. KAREN M. CROSBY, CHRISTELINDA LAUREIJS

(Oral) Enhancing learning & collaboration with a classroom magazine project

Sackville, NB

2025

Research New Brunswick Health Research Symposium

CHRISTELINDA LAUREIJS, DR. KAREN M. CROSBY

(Oral) Examining the effect of insulin on neuronal signalling in the rat dorsomedial hypothalamus

Moncton, NB

2024

Atlantic Regional Comparative Physiology Workshop

CHRISTELINDA LAUREIJS, DR. KAREN M. CROSBY

(Oral) Insulin decreases excitatory synaptic transmission in the rat dorsomedial hypothalamus – but how?

St. Andrews, NB

2024

Summer Undergraduate Research Fair (SURF) for SHAD Canada

CHRISTELINDA LAUREIJS, DR. KAREN M. CROSBY

(Oral) How will insulin injections in the rat brain affect food intake?

Sackville, NB

2024

Gordon Research Conference: Hypothalamus

CHRISTELINDA LAUREIJS, DR. KAREN M. CROSBY

(Poster) Insulin modulates synaptic transmission in the rat dorsomedial hypothalamus

Lewiston, ME

2024

Obesity and Hypertension in Canada: From Science to Solutions

DR. KAREN M. CROSBY, CHRISTELINDA LAUREIJS

(Oral) Insulin Modulates Neuronal Signalling in the Rat Dorsomedial Hypothalamus

Banff, AB

2024

Biology and Applied Aquatic Sciences Joint Conference

CHRISTELINDA LAUREIJS, DR. KAREN M. CROSBY

(Oral) Examining the relationship between insulin and neuronal activity in the rat dorsomedial hypothalamus

Halifax, NS

2024

Research New Brunswick Health Research Week

CHRISTELINDA LAUREIJS, DR. KAREN M. CROSBY

(Poster) The effect of insulin on neuronal communication in the rat dorsomedial hypothalamus

Saint John, NB

2023

Summer Undergraduate Research Fair (SURF) for SHAD Canada

CHRISTELINDA LAUREIJS, DR. KAREN M. CROSBY

(Oral) Does insulin affect neurons in the dorsomedial hypothalamus?

Sackville, NB

2023

Society for Teaching and Learning in Higher Education (STLHE) Annual Conference

MATTHEW DUNLEAVY, SUSAN ANDREWS, CARLA VANBESELAERE, CHRISTELINDA LAUREIJS, SHANNON GOGUEN, DENISE ROY-LOAR

(Oral) Together Time Story Sacks: Engaging Students-as-Partners to Build a Community-Based Intergenerational Literacy Program

Charlottetown, PEI

2023

Dalhousie Conference on University Teaching and Learning

MATTHEW DUNLEAVY, CHRISTELINDA LAUREIJS, SHANNON GOGUEN, DENISE ROY-LOAR

(Oral) Starting off Right: Students-as-Partners as the Foundation of a Community-Based Intergenerational Literacy Program

Halifax, NS

2023

Innovations in Education Conference

DR. JESSICA RIDDELL, DR. TONI ROBERTS, MATTHEW DUNLEAVY, GEORGES-PHILIPPE GADOURY-SANSFAÇON, SHANNON HEATHER

GOGUEN, CHRISTELINDA LAUREIJS, EMMA TRUMBLE

(Oral) Students as Partners in Curricular and non-Curricular Work-Integrated Learning

Hamilton, Ontario

2021

Publications

Insulin decreases glutamate transmission and neuronal excitability in the rat dorsomedial hypothalamus (submitted; JP-RP-2025-289274)

CHRISTELINDA LAUREIJS & KAREN M. CROSBY

An original research article demonstrating the effects of insulin on glutamate transmission and neuronal excitability in the rat dorsomedial hypothalamus, using whole cell patch clamp electrophysiology recordings.

Journal of Physiology

2025

Reflecting on Vulnerability, Skill-Building and Identity in an Interdisciplinary SaP Project: Together Time Story Sacks

MATTHEW DUNLEAVY, SUSAN ANDREWS, CARLA VANBESELAERE, CHRISTELINDA LAUREIJS, SHANNON GOGUEN, DENISE ROY-LOAR

A case study reflecting on lessons learned from using the Students-as-Partners framework in a new literacy project called Together Time Story Sacks.

International Journal for Students as Partners

2024

Using Embedded Simulations in Moodle Courses

CHRISTELINDA LAUREIJS & MATTHEW DUNLEAVY

A tutorial (initially intended for faculty at Mount Allison University) demonstrating how to embed multimedia content into Moodle pages using custom HTML blocks.

Online Learning & Technology Consultants Program

2021

OLTC Micro-Blogs – More than Just Moodle: Student-Educator Collaboration in the OLTC Program

SHANNON GOGUEN & CHRISTELINDA LAUREIJS

Highlights the role of online learning technology consultants (OLTCs) in increasing meaningful student-educator partnerships across universities.

Maple League of Universities

2021

Packages

patchclampplotter

CHRISTELINDA LAUREIJS

[GitHub](#)

2024

An R package developed to enable electrophysiologists to plot and analyze raw patch clamp data. <https://christelinda-laureijs.github.io/patchclampplotterR/index.html>

Employment

Poster Designer

[Mount Allison University](#)

MODERN LANGUAGES AND LITERATURES DEPARTMENT

2022-24

Designed colourful and attractive posters for English-speaking students learning German. The posters include vocabulary posters (Animals, Food, and Home vocabulary) and posters highlighting unique idiomatic expressions in the German language. The posters are actively used in introductory German courses as testing material as well as to improve vocabulary retention and student engagement.

Notetaker

[Mount Allison University](#)

MEIGHEN CENTRE

Summer 2023 & Fall 2023

Increased accessibility to course material by creating clear, well-organized notes for students through the Meighen Centre. Courses included Introduction to Material Cultures (Summer 2023) and Applied Genetics (Fall 2023).

Chemistry/Biochemistry/Biology Help Centre Teaching Assistant

[Mount Allison University](#)

CHEMISTRY/BIOLOGY/BIOCHEMISTRY HELP CENTRE

Fall 2022 - Winter 2023

Helped students to succeed in first-year science courses through a twice-weekly help centre by coaching students as they discovered their own problem-solving approaches. Explained a wide variety of course concepts (in chemistry, biology and biochemistry), and demonstrated efficient ways to identify and resolve mistakes in practice question sets.

Research Assistant

[Mount Allison University](#)

TOGETHER TIME STORY SACKS

2022-23

Assisted with the launch of a pilot project assessing barriers to intergenerational literacy programs in rural New Brunswick. Compiled an annotated bibliography, summarized findings from the literature, analyzed interview transcripts, and shared major themes found in both the bibliography and interview transcripts. This work contributed to the widespread success of the project, with children and families across rural New Brunswick receiving Story Sacks and access to literacy materials.

Laboratory Teaching Assistant

[Mount Allison University](#)

BIOLOGY DEPARTMENT

Fall 2022

Assisted students during the laboratory portion of a first-year introductory biology course (BIOL 1001) by demonstrating safe laboratory techniques, and helping students to successfully complete experiments. Answered student questions, provided guidance for assignments, and encouraged students to draw connections between course content and lab activities.

Piano & Music Theory Teacher

[Amherst, NS](#)

SELF-EMPLOYED

Summer 2022, 2024

Taught private piano lessons in a one-on-one setting. Created lesson plans, corrected music theory assignments, and composed pop song arrangements at a level appropriate for the student's current abilities.

Help Centre Teaching Assistant

[Mount Allison University](#)

BIOCHEMISTRY DEPARTMENT

Fall 2021

Managed a drop-in help centre for students taking an Introductory Biochemistry course (BIOC 1001) at Mount Allison University. Explained course concepts, clarified misunderstandings, and demonstrated to students how they could approach problem solving on their own. Answered questions on Moodle (an online learning platform) and created illustrations and diagrams to assist with key concepts.

Online Learning Technology Consultant (OLTC)

[Mount Allison University](#)

MAPLE LEAGUE OF UNIVERSITIES

Summer 2021 - Fall 2021

Supported faculty as they adapted to online learning during the pandemic, by working with them to address their teaching goals and technical issues. Designed course Moodle pages, created quizzes and other online assessment tools and taught faculty how to use a wide variety of online learning and teaching tools. Performed syllabus audits and discussed best practices for learning and accessibility.

Academic Service

Animal Care Committee

Mount Allison University

DEPARTMENT OF BIOLOGY

2023-24

Served as the undergraduate (2023-24) and graduate (2024-25) representative on the animal care committee. Reviewed project proposals and renewals, participated in facility inspections and joined in discussions related to best practices for animal use on campus.

Lab Training

Mount Allison University

CROSBY LAB

2023-24

Trained Honours student Emily Rushton (2024-25) and Independent Studies student Jasmine Pannozzo-Oddy (2023-24) in conducting whole-cell patch-clamp electrophysiology experiments and collecting and analyzing data. Also trained two undergraduates (Kate Weldon & Selena Winchester) in lab practices such as making solutions, preparing the lab for experiments, and maintaining lab cleanliness.

Awards

Academic Distinction

OUTSTANDING BIOLOGY TA AWARD

2025

Awarded to a teaching assistant that goes above and beyond expectations, actively participates in labs to help their peers understand material, and makes labs more fun.

GOVERNOR GENERAL'S SILVER MEDAL

2024

Awarded to the undergraduate student in the graduating class who has the highest average of all those receiving a first degree.

ALUMNI ACADEMIC ACHIEVEMENT AWARD

2024

Awarded to the graduate with the most distinguished academic record.

PRAVIN VARMA GOLD MEDAL IN SCIENCE (\$500)

2024

Awarded to the student graduating with the highest record in all subjects counting for the Bachelor of Science Degree with Honours.

HAROLD MELVILLE ROGERS MEMORIAL GOLD MEDAL

2024

Awarded to students of marked brilliance in Biology who possess those qualities and ideals that mark the highest type of university student and scientist.

BIOLOGY PRIZE FOR RESEARCH EXCELLENCE (\$250)

2024

Awarded to Biology students whose academic standing is high and who show the promise of the ability to do original research.

THE DAVID S. FENSOM PRIZE (1ST PLACE; \$500)

2024

Awarded to students who have given the best public presentations of their Biology 4950 or Biology 4990 Honours work during the thesis presentations.

NOVA SCOTIAN INSTITUTE OF SCIENCE STUDENT SCIENCE AND TECHNOLOGY COMMUNICATION COMPETITION (\$800)

2024

Awarded to a Nova Scotian student who wrote the highest scoring research paper on an original topic. The papers are judged according to scientific merit, effective communication skills, and accessibility to a non-specialist audience.

SCIENCE ATLANTIC UNDERGRADUATE RESEARCH AWARD FOR ORAL PRESENTATION (\$200)

2024

Awarded to the student (or students) giving the best research presentation(s) at an annual Science Atlantic conference.

DEAN'S LIST (X 4)

2021-23

Applied to full-time students who receive at least a 3.7 SGPA.

THE HAROLD CHAPMAN STEEVES AND ANNALEA STEEVES MEMORIAL PRIZE (\$1,094)

2023

Awarded to an outstanding student majoring or honouring in biology.

WILLIAM THOMAS ROSS FLEMINGTON SCHOLARSHIP (\$2,850)

2022

Awarded to a student entering third year with a good academic record and interest & skill in lab work.

WEEKS PRIZE (\$50)

2021

Awarded to a student with the highest academic standing in Biology 1001 & 1501.

Scholarships

IWK FUTURE HEALTH AND RESEARCH INNOVATION SCHOLARSHIP (\$2,500)

2020

Awarded to students in the Maritime provinces based on a research paper about a healthcare topic and its impact on families in the Maritimes.

MOUNT ALLISON ENTRANCE SCHOLARSHIP (\$16,000)	2020
Awarded to incoming students based on academic performance, leadership, extracurricular involvement, community service & work experience.	
CREDIT COUNSELLING SERVICES OF ATLANTIC CANADA SCHOLARSHIP (\$1,000)	2020
Awarded to students based on an essay about responsible financial management.	
SABLE ISLAND SCHOLARSHIP (\$1,500)	2020
Awarded to a grade 12 student in Nova Scotia based on a creative art submission highlighting a breaking news story about Sable Island. I created a newsreel-style video titled “Connections to Sable Island” about Sable Island’s role during World War II.	
SHOWCASE PRODUCTIONS BURSARY (\$500)	2020
Awarded to a student based on volunteer contributions to the Showcase Productions society and a written essay on future goals.	
Piano Competitions	
3RD PLACE INTERMEDIATE PIANO COMPETITION AT THE NEW BRUNSWICK MUSIC FEDERATION OF MUSIC FESTIVALS	2019
Awarded to a performer who placed third in the provincial competition in the intermediate piano class (ages 14-18).	
2ND PLACE JUNIOR PIANO COMPETITION AT THE NOVA SCOTIA MUSIC FEDERATION PROVINCIALS	2019
Awarded to a performer who placed second in the provincial competition in the junior piano class of the Nova Scotia Provincials.	
MORRISON ROSE BOWL FOR OUTSTANDING SENIOR PERFORMANCE	2019
Awarded for outstanding performances in the senior piano division of the Truro Music Festival. Festival. Students are also recommended to compete in the junior class of the Nova Scotia Provincials.	
2ND PLACE CHAMBER CLASS INTERMEDIATE COMPETITION AT THE NEW BRUNSWICK MUSIC FEDERATION OF MUSIC FESTIVALS	2017
Awarded to a chamber group who placed second in the provincial competition in the intermediate chamber class.	
1ST PLACE CANADIAN COMPOSER INTERMEDIATE COMPETITION (x4)	2016-19
Awarded to a performer who placed first in the provincial competition in the intermediate Canadian composer piano class (ages 14-18).	
2ND PLACE JUNIOR PIANO COMPETITION AT THE NEW BRUNSWICK MUSIC FEDERATION OF MUSIC FESTIVALS	2014, 2019
Awarded to a performer who placed second in the provincial competition in the junior piano class (< 14 years old).	
SACKVILLE MUSIC FESTIVAL AWARD FOR SENIOR PIANO SIGHT READING	2018
Awarded to first-place finalists with a grade above 85 in the senior piano sight reading competition.	
SACKVILLE MUSIC FESTIVAL AWARDS (x7)	2013-19
Awarded to first-place finalists in Sackville Music Festival. Recipients are also nominated to perform at the New Brunswick Music Federation Provincials.	
MOUNT ALLISON LOCAL CENTRE PIANO EXAMINATIONS CELEBRATION OF TALENT AWARD (GRADES 8-10)	2014-17
Awarded to the student who received the highest mark across the province in their piano level in the Local Centre Piano Examinations.	
Art, Poetry, and Film Contests	
NOT YOUR GRANDFATHER’S MINING BEST 30-SECOND COMMERCIAL (\$750)	2020
Awarded based on a 30-second commercial about the next steps required for maintaining an environmentally responsible mining industry in Nova Scotia.	
NOT YOUR GRANDFATHER’S MINING BEST 30-SECOND COMMERCIAL (\$750)	2018
Awarded based on a 30-second commercial educating Nova Scotians about the mining industry.	
FIRST PLACE IN GET TO KNOW YOUR WILD NEIGHBORS POETRY CONTEST	2019
Awarded to the top entry in a poetry contest designed to encourage exploration in nature.	
GRAND PRIZE WINNER OF GET TO KNOW YOUR WILD NEIGHBORS PHOTOGRAPHY CONTEST	2018
Awarded to the top entry in a photography contest designed to increase awareness about the wonder of nature.	
NOURISH NOVA SCOTIA FOOD AND FILM CHALLENGE WINNER (\$500 CAMERA PACKAGE)	2017
Awarded based on a film about balancing food security with sustainability.	