



Clément Hardy

PHD STUDENT

Université du Québec à Montréal

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Clément is a PhD student in forest ecology, who uses spatially-explicit modeling to explore the effects of forest management.

PhD research subject

My PhD is concerned with the effects of **uneven-aged forest management** on forest landscapes, which seeks to conserve forests with a **heterogeneous age structure**.

I am using **the LANDIS-II model** to study the long-term effects of this development, in order to understand how it could help our societies to better manage forests taking into account **global changes**.

Formation

Université du Québec à Montréal

PHD IN BIOLOGY

Montréal, Québec

2017-today

Université Pierre et Marie Curie

MASTER DEGREE IN ECOLOGY, BIODIVERSITY AND EVOLUTION

Paris, France

2014-2016

Université Pierre et Marie Curie

LICENCE DEGREE IN LIFE SCIENCES

Paris, France

2010-2014

Lycée Montesquieu

BACCALAURÉAT – SCIENCE SPECIALIZATION

Herblay, France

2007-2010

Experience in ecology

Ministry of Forests and Natural Ressources of Québec

STUDENT CONSULTANT, WORKING ON PROJECTS RELATED TO THE ALBEDO AND CARBON STORAGE OF QUEBEC FORESTS

Supervisors : Maxime Renaud (DAEF)

September 2019 - May 2023

Université du Québec à Montréal (UQAM), Montréal, Québec

TEACHING ASSISTANT

Supervisors : David Bird and Olivier

Aubry (Professors at the UQAM)

September 2018 - May 2019

Centre de Recherche et de Formation en Eco-Ethologie de l'Université de Reims (CERFE)

FIELDWORK FOR A LANDSCAPE GENETICS STUDY CONCERNING A POPULATION OF PINE MARTEN (MARTES MARTES) IN THE FRENCH PYRÉNÉES MOUNTAINS

Supervisor : M. Mergey-Barbe,

engineer at the CERFE

November 2016 - August 2017

Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD), Montpellier, France

ANALYSIS OF DATA CONCERNING THE EFFECT OF VILLAGE HUNTING PRESSURE ON MAMMALS IN THE CONGO BASIN, AFRICA

Supervisors : V. Grosbois, N.

Gaidet-Drapier, researchers at the

Reserch Unit AGIRs of the CIRAD

February 2016 - July 2016

Laboratoire de Biométrie et de Biologie Evolutive (LBBE), CNRS 5558, Lyon, France

PROCESSING AND ANALYSIS OF NEOPHOBIA TEST DATA ON THE COLLARED FLYCATCHER, FICEDULA ALBICOLLIS

Supervisor : G. Daniel, PhD student

Spring 2015

SOPTOM - Village des Tortues, Gonfaron, France

VOLUNTEERING IN A TURTLE CONSERVATION AND DISCOVERY CENTER

Supervisors : Bernard Devaux

(Director), Romain Levasseur

(Intendant)

August 2014

Publications

1. Hardy, C., Messier, C., Valeria, O., & Filotas, E. (2023). A LANDIS-II extension for simulating forest road networks. *Canadian Journal of Forest Research*. <https://doi.org/10.1139/cjfr-2022-0306>
2. Hardy, C. (2022). Is Veganism the best way to reduce carbon emissions? *Skeptical Science*. <https://skepticalscience.com/veganism.htm>
3. Hardy, C. (2022). L'aménagement forestier inéquien : Solution ou mirage d'une foresterie durable ? *Le Couvert Boréal*, 18(1).
4. Houngbégnon, F. G. A., Cornelis, D., Vermeulen, C., Sonké, B., Ntie, S., Fayolle, A., Fonteyn, D., Lhoest, S., Evrard, Q., Yapi, F., Sandrin, F., Vanegas, L., Ayaya, I., Hardy, C., Le Bel, S., & Doucet, J.-L. (2020). Daily Activity Patterns and Co-Occurrence of Duikers Revealed by an Intensive Camera Trap Survey across Central African Rainforests. *Animals*, 10(12), 2200. <https://doi.org/10.3390/ani10122200>

Communications and presentations

Science Action! contest of the NSERC

THE FUTURE OF FORESTS - WON ONE OF THE 6 FIRST PRIZES

Clément Hardy

May 2023

Science communication contest organized by the pôle ISE-CIRODD-RIISQE

IN THE SHADOW OF JEVONS - WHEN EFFICIENCY BRINGS ENVIRONMENTAL DESTRUCTION - WON SECOND PRIZE

Clément Hardy

May 2023

TV documentary on the Savoir Media channel

LA BATAILLE POUR LA FORÊT

Clément Hardy

February 2023

ComSciCon-QC 2022

IS INTENSIVE FORESTRY A CATASTROPHE, OR AN OPPORTUNITY ?

Clément Hardy

May 2022

11th annual symposium of the Centre de la Science de la Biodiversité du Québec (CSBQ)

SIMULATING FOREST ROADS IS NECESSARY TO DETERMINE THE IMPACTS OF FOREST MANAGEMENT ON HABITAT AMOUNT AND FRAGMENTATION

Clément Hardy, Christian Messier,
Yan Boulanger, Dominic Cyr, Elise
Filotas

December 2021

Seminar at the University of Alaska Fairbank

LONG-TERM IMPACTS OF UNEVEN-AGED DEVELOPMENT ON THE QUANTITY AND FRAGMENTATION OF OLD-GROWTH FOREST IN A LANDSCAPE

Clément Hardy, Christian Messier,
Yan Boulanger, Dominic Cyr, Elise
Filotas

September 2021

Annual conference of the International Boreal Forest Research Association (IBFRA)

LONG-TERM IMPACTS OF UNEVEN-AGED DEVELOPMENT ON THE QUANTITY AND FRAGMENTATION OF OLD-GROWTH FOREST IN A LANDSCAPE - WON BEST PRESENTATION AWARD

Clément Hardy, Christian Messier,
Yan Boulanger, Dominic Cyr, Elise
Filotas

August 2021

Discovery workshop for students and researchers

ORGANIZATION AND OPEN-SOURCE WORKSHOP

Clément Hardy

August 2021

Discovery workshop for students and researchers

WORKSHOP TO LEARN TO USE THE FRS MODULE FOR LANDIS-II

Clément Hardy

July 2021

14th annual symposium of the Centre d'Étude de la Forêt (CEF)

LONG-TERM IMPACTS OF UNEVEN-AGED DEVELOPMENT ON THE QUANTITY AND FRAGMENTATION OF OLD-GROWTH FOREST IN A LANDSCAPE - WON BEST PRESENTATION AWARD

Clément Hardy, Christian Messier,
Yan Boulanger, Dominic Cyr, Elise
Filotas

May 2021

Swedish University of Agricultural Sciences doctoral course : Enhancing forest resilience for an uncertain future

LONG TERM IMPACTS OF UNEVEN-AGED MANAGEMENT

Clément Hardy, Christian Messier,
Yan Boulanger, Dominic Cyr, Elise
Filotas

Mai 2021

19th annual meeting of the North American Regional Association of the International Association for Landscape Ecology (NA-IALE)

THE INFLUENCE OF FOREST ROAD NETWORKS ON THE LONG TERM IMPACTS OF UNEVEN-AGED MANAGEMENT

Clément Hardy, Christian Messier,
Elise Filotas

May 2020

10th annual symposium of the Centre de la Science de la Biodiversité du Québec (CSBQ)

ROADS TO CONSERVATION

*Clément Hardy, Christian Messier,
Elise Filotas*

December 2019

13th annual symposium of the Centre d'Étude de la Forêt (CEF)

A NEW LANDIS-II MODULE TO STUDY THE EFFECTS OF ROADS ON FOREST LANDSCAPES

*Clément Hardy, Christian Messier,
Elise Filotas*

May 2019

9th annual symposium of the Centre de la Science de la Biodiversité du Québec (CSBQ)

HOW DO I CUT THIS FOREST LANDSCAPE FOR YOU? - INFLUENCE OF SPACE TESSELLATION METHODS ON MODELING IN FOREST ECOLOGY

*Clément Hardy, Christian Messier,
Elise Filotas*

December 2018