Karl Cottenie

LIFETIME CURRICULUM VITAE

1. PRIMARY APPOINTMENT AT THE UNIVERSITY OF GUELPH

Rank: Associate Professor, Tenure

Academic Unit: Integrative Biology
Dates: Jan. 2005 - present

Percentage Workload: 100%

desc

DISTRIBUTION OF EFFORT

Dates: Jul. 2021 - present

Teaching: 15% **Research/Scholarship:** 15% **Service:** 70%

2. EDUCATION AND DEGREES

Ecology, Jun. 2005

University of California, Santa Barbara, United States of America, Completed.

Ecology, Jun. 2002

Katholieke Universiteit Leuven (Dutch), Belgium, Completed.

Statistics, Jul. 1997

Katholieke Universiteit Leuven (Dutch), Belgium, Completed.

Ecology, Jul. 1996

Katholieke Universiteit Leuven (Dutch), Belgium, Completed.

3. EMPLOYMENT HISTORY

ACADEMIC WORK EXPERIENCE AT THE UNIVERSITY OF GUELPH

Jul. 2011 - present: **Associate professor**, Associate Professor, Tenure, Full-time, Integrative Biology, University of Guelph, Canada

Jul. 2005 - Jun. 2011: **Assistant professor**, Assistant Professor, Tenure Track, Full-time, Integrative Biology, University of Guelph, Canada

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ACADEMIC WORK EXPERIENCE EXTERNAL TO THE UNIVERSITY OF GUELPH

Oct. 2001 - Jan. 2003: **Researcher**, Full-time, Catholic University Leuven . Leuven

LEAVES OF ABSENCE

Sep. 2018 - Apr. 2019: **Sabbatical** University of Guelph, Canada Study/Research Leave

Sep. 2012 - Apr. 2013: **Sabbatical** University of Guelph, Canada Study/Research Leave

5. TEACHING RESPONSIBILITIES

TEACHING AT THE UNIVERSITY OF GUELPH

Assigned Teaching

Semester	Course	Section	Credits	# Students	Campus	Role
2022 - Fall	IBIO6630 Scientific Communication		0.50		Guelph	Instructor
2022 - Winter	IBIO6070 St: Advanced Integrative Biology I	1	0.50	4	Guelph	Instructor
2021 - Fall	IBIO6070 St: Advanced Integrative Biology I	1	0.50	3	Guelph	Instructor
2021 - Fall	IBIO6630 Scientific Communication	1	0.50	29	Guelph	Instructor
2020 - Fall	IBIO6630 Scientific Communication	1	0.50	25	Guelph	Instructor
2020 - Winter	STAT2230 Biostats for Integrative Biol	1	0.50	176	Guelph	Instructor
2019 - Fall	BIOL3010 Lab & Work in Ecology	1	0.50	77	Guelph	Instructor
2018 - Winter	IBIO4500 Research in Integrative Biol I	01	1.00	35	Guelph	Instructor
2018 - Winter	IBIO4510 Research/	01	1.00	26	Guelph	Instructor

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Semester	Course	Section	Credits	# Students	Campus	Role
	Integrative Biol II					
2017 - Fall	IBIO6070 Advances in Integrative Biology I			1	Guelph	Instructor
2017 - Fall	BIOL3010 Laboratory and Field Work in Ecology			101	Guelph	Instructor
2017 - Winter	IBIO6000 Special Topics in Ecology and Behaviour			17	Guelph	Instructor
2016 - Fall	BIOL4110 Ecological Methods				Guelph	Instructor
2016 - Fall	BIOL3010 Laboratory and Field Work in Ecology				Guelph	Course instructor
2015 - Fall	BIOL*4110 Ecological Methods			80	Guelph	course instructor
2015 - Fall	BIOL*4410 Field Course Algonquin			25	Guelph	course instructor
2015 - Winter	IBIO*6000 Advances in Ecology and Evolution			8	Guelph	course instructor
2014 - Fall	BIOL*4110 Ecological Methods			59	Guelph	course instructor
2014 - Winter	BIOL*3120 Community Ecology			180	Guelph	course instructor
2013 - Fall	BIOL*4410 Field Course Algonquin			25	Guelph	course instructor
2012 - Winter	UNIV*1200 Exploring environmental healing			18	Guelph	course instructor
2012 - Winter	BIOL*3120 Community Ecology			200	Guelph	course instructor
2011 - Fall	IBIO*6000 Advances in Ecology and Behaviour			20	Guelph	course instructor
2011 - Fall	BIOL*4410 Field Course Algonquin			25	Guelph	course instructor
2011 - Winter	BIOL*3120 Community Ecology			171	Guelph	course instructor
2010 - Fall	BIOL*4350 Biology of Polluted Waters			50	Guelph	course instructor

Semester	Course	Section	Credits	# Students	Campus	Role
2010 - Winter	BIOL*3120 Community Ecology			158	Guelph	course instructore
2009 - Fall	BIOL*4350 Biology of Polluted Waters			40	Guelph	course instructor
2009 - Fall	BIOL*4410 Field Course Algonquin			22	Guelph	course instructor
2009 - Winter	BIOL*3120 Community Ecology			151	Guelph	course instructor
2008 - Fall	BIOL*4350 Biology of Polluted Waters			39	Guelph	course instructor
2008 - Winter	BIOL*3120 Community Ecology			110	Guelph	course instructor
2007 - Fall	BIOL*4350 Biology of Polluted Waters			39	Guelph	course instructore
2006 - Fall	BIOL*4350 Biology of Polluted Waters			39	Guelph	course instructor
2006 - Winter	BIOL*3120 Community Ecology			121	Guelph	course instructor
1997 - Fall	BIOL4110 Ecological Methods		1.00	42	Guelph	Instructor

Totals 6.5 2116

Independent Study

2016 - Fall: IBIO6070 Advances in Integrative Biology I (Graduate). (Guelph Campus). **Role**: Individual Teaching/Study - Graduate Student. **Enrollment**: 1. **Student Name(s)**: Katee McGee. **Student Completion Date**: Dec. 2016.

Description: Graduate Student Individual Instruction. Fall. Student Start Date: 2016-09-01. Student End Date: 2016-12-31

2010 - Winter: IBIO4521 Thesis in Integrative Biology (Undergraduate). (Guelph Campus). **Role:** Individual Teaching/Study - Undergraduate Student. **Student Name(s)**: Adam Marinelli. **Student Completion Date**: Dec. 2010.

Description: - Quantifying riparian buffer widths and landscape variables in Ontario boreal lakes

2010 - Fall: IBIO4500 Research in Integrative Biology I (Undergraduate). (Guelph Campus). **Role**: Individual Teaching/Study - Undergraduate Student. **Student Name(s)**: Brittany Jones. **Student Completion Date**: Apr. 2010.

Description: - Trade-offs and dispersal limitation in an experimental zooplankton metacommunity system .

^{*} CR = Credit Weight. A typical UofG credit course = 0.5

2009 - Winter: IBIO4500 Research in Integrative Biology I (Undergraduate). (Guelph Campus). **Role**: Individual Teaching/Study - Undergraduate Student. **Student Name(s)**: Nancy Linehan. **Student Completion Date**: Apr. 2009.

Description: - Effect of future atmospheric carbon dioxide levels on ocean chemistry and Scleractinian calcification rate

2009 - Winter: IBIO4510 Research in Integrative Biology II (Undergraduate). (Guelph Campus). **Role:** Individual Teaching/Study - Undergraduate Student. **Student Name(s)**: Deniz Ergun. **Student Completion Date**: Apr. 2009.

Description: - Environment, space and time as explicit factors in the metacommunity analysis of zooplankton in natural and human constructed pools

2009 - Winter: IBIO4510 Research in Integrative Biology II (Undergraduate). (Guelph Campus). **Role:** Individual Teaching/Study - Undergraduate Student. **Student Name(s)**: Erinn Ipsen. **Student Completion Date**: Apr. 2009.

Description: - Effects of tree harvesting on zooplankton community succession .

2009 - Fall: IBIO4521 Thesis in Integrative Biology (Undergraduate). (Guelph Campus). **Role**: Individual Teaching/Study - Undergraduate Student. **Student Name(s)**: Amanda Winegardner. **Student Completion Date**: Apr. 2009.

Description: - Zooplankton metacommunity responses to manipulated salinity in sub arctic rock pools .

2008 - Fall: IBIO4500 Research in Integrative Biology I (Undergraduate). (Guelph Campus). **Role:** Individual Teaching/Study - Undergraduate Student. **Student Name(s):** Katy Jay. **Student Completion Date:** Dec. 2008.

Description: - Trait based metacommunity dynamics

2008 - Winter: IBIO4510 Research in Integrative Biology II (Undergraduate). (Guelph Campus). **Role:** Individual Teaching/Study - Undergraduate Student. **Student Completion Date:** Apr. 2008.

2006 - Fall: IBIO4521 Thesis in Integrative Biology (Undergraduate). (Guelph Campus). **Role:** Individual Teaching/Study - Undergraduate Student. **Student Name(s)**: Ingrid Ng. **Student Completion Date:** Dec. 2006.

Description: Hierarchical zooplankton metacommunities: dispersal limitation versus mass effects.

OTHER TEACHING-RELATED ACTIVITIES

Jan. 2018: **5 day metacommunity workshop**, co-instructor. Sao Jose Di Rio Preto, Brazil

Jan. 2016 - present: Scholarship of Teaching and Learning.

Learning analytics at the University of Guelph. I am one of the participants in a research project that investigates the feasibility of implementing the Brightspace (Desire2Learn) Student Success System at the University of Guelph. The purpose of the S3 module is to identify

students on specific trajectories (those at risk of probationary status; those with very high performances) early enough that interventions can be considered. These predictions are based on a combination of interactions that each student has with different components of the learning management system such as the grade book, amount of time spent in the content section, course access, interactions with other students, etc. - We finished Phase 1 of the project, where we established a protocol to analyse the data we receive from D2L and evaluated the reliability of the tool. For the 3 CBS courses we looked at, the predictions are only determined by the grade book domain, and the tool is only reliable around week 10 in the 12 week course, thus not really an "early" warning tool. - Phase 2 will analyse the tool for a bigger set of courses, including exclusively on-line courses, to determine if these results are general across first-year University of Guelph courses.

Jan. 2016 - present: Scholarship of Teaching and Learning.

Presenting at a teaching conference. I participated with 2 presentations at the Teaching and Learning Innovations conference, University of Guelph, April 26-27 2016: Adventures and explorations in specifications grading, with Simon Denomme-Brown and Leslie Rye; Identifying students at risk: student learning analytics and other metrics, with Claire Coulter, Richard Gorrie, Brian Husband, Shoshanah Jacobs, and Scott Merrett.

6. STUDENT AND RESEARCHER SUPERVISION

SUPERVISORY ACTIVITIES AT THE UNIVERSITY OF GUELPH

Graduate Supervision

Principal Supervisor

Number of Students: 9

Principal Supervisor: Master's Thesis

Sep. 2019 - Aug. 2021

Alicia Halhed, University of Guelph, Integrative Biology, **Status:** Completed **Thesis/Project Title**: Metacommunity structure of microbiome in vertebrate hosts.

Sep. 2018 - Dec. 2020

Jarvis, William, Status: Completed

Sep. 2010 - Dec. 2012

Brittany Jones, University of Guelph, Integrative Biology, Status: Completed, Sep.

2010 - Dec. 2012

Thesis/Project Title: THE EFFECTS OF SALINITY TOXICITY ON SPECIES FROM A

SUB-ARCTIC ZOOPLANKTON COMMUNITY, IN LIGHT OF A CHANGING

ENVIRONMENT

Sep. 2009 - Dec. 2011

Amanda Winegardner, University of Guelph, Integrative Biology, **Status:** Completed, Sep. 2009 - Dec. 2011

Thesis/Project Title: ZOOPLANKTON METACOMMUNITY RESPONSES TO ENVIRONMENTAL CHANGE IN THE SUB-ARCTIC

Sep. 2007 - Dec. 2009

Ingrid Ng, University of Guelph, Integrative Biology, Status: Completed, Sep. 2007 -

Dec. 2009

Other Supervisor(s): Paul Sibley (Co-Supervisor)

Thesis/Project Title: EFFECTS OF VARYING RIPARIAN BUFFER WIDTHS ON

ZOOPLANKTON COMMUNITIES IN BOREAL FOREST LAKES

Principal Supervisor: Master's Non-Thesis

May 2020 - Dec. 2020

Teodora Tockovska, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Spatial patterns in host-associated and free-living microbiomes

Apr. 2019 - Aug. 2019

Karuna Vijayakumar, University of Guelph, Integrative Biology, **Status:** Completed **Thesis/Project Title**: Evaluating bioinformatic pipeline sensitivities in a metabarcoding project.

Apr. 2018 - Aug. 2018

Xin Wei, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Spatial patterns of transposable elements in modelled circular bacterial genomes.

May 2017 - Aug. 2017

Laura Lanteigne, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: An ecological approach to analyzing insertion sequence distributions in prokaryotic genomes

Co-Supervisor

Number of Students: 15

Co-Supervisor: Doctorate

Sep. 2022 - Aug. 2026

Elizabeth Porter, Status: In Progress

Thesis/Project Title: Reducing Bias in Ecological and Environmental Data Collection

Sep. 2020 - Aug. 2024

Eleonore Lebeuf-Taylor, Status: In Progress

Thesis/Project Title: The interplay between social stress and the gut microbiota in

wild Siberian jays

Sep. 2019 - Aug. 2021

Carolyn Gibson, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: The ecological and societal implications of permafrost thaw.

Jan. 2019 - Dec. 2023

Marie-Eugenie Maggia, University of Guelph, Integrative Biology, Status: Completed

Other Supervisor(s): Dirk Steinke (Co-Supervisor)

Thesis/Project Title: Global Earthworm Biodiversity Patterns

Sep. 2017 - Aug. 2023

Jennifer Gleason, University of Guelph, Status: Completed

Other Supervisor(s): Robert Hanner (Co-Supervisor)

Thesis/Project Title: Metacommunity dynamics and eDNA in a human-influenced

landscape.

Sep. 2016 - Dec. 2023

Anna Solecki, University of Guelph, Integrative Biology, Status: Completed, Sep.

2015 - present

Other Supervisor(s): Christopher Buddle (Co-Supervisor)

Thesis/Project Title: Ecophylogenetics of flies along multiple environmental gradients.

Sep. 2015 - Oct. 2023

Carolyn Trombley, University of Guelph, Integrative Biology, Status: Completed,

Sep. 2015 - present

Other Supervisor(s): Astrid Schwalb (Co-Supervisor)

Thesis/Project Title: Metacommunity structure of Virgin River fish and the effects of

the invasive red shiner (Cyprinella lutrensis) on native fish assemblages

Sep. 2014 - present

Simon Denomme-Brown, University of Guelph, Integrative Biology, Status: In

Progress, Sep. 2014 - Jul. 2022 (expected)

Other Supervisor(s): Andrew MacAdam (Co-Supervisor)

Thesis/Project Title: Metacommunity dynamics in small mammal communities

Sep. 2012 - Aug. 2019

Brent Saylor, University of Guelph, Integrative Biology, Status: Completed, Sep. 2012

- present

Other Supervisor(s): Ryan Gregory (Co-Supervisor)

Thesis/Project Title: Applying ecological theory to genomic data.

Co-Supervisor: Master's Thesis

Sep. 2022 - Aug. 2024

Laura Dutheil, Status: In Progress

Thesis/Project Title: Comparing family and species-level responses of aquatic

invertebrates to mining effluent contamination

Apr. 2021 - Apr. 2023

Bryan Vandenbrink, Status: Completed

Thesis/Project Title: Use of DNA Barcoding data to differentiate potentially invasive and natural range expansion of arthropod species in Nunavut.

Sep. 2020 - Aug. 2022

Elizabeth Porter, University of Guelph, Integrative Biology, Status: Completed

Other Supervisor(s): Shoshanah Jacobs (Co-Supervisor)

Thesis/Project Title: Long-term monitoring of Eastern Grey Squirrel.

Sep. 2015 - Aug. 2017

Joshua Cunningham, University of Guelph, Integrative Biology, Status: Completed,

Sep. 2015 - present

Other Supervisor(s): Shoshanah Jacobs (Co-Supervisor)

Thesis/Project Title: The Use of Seabirds as Indicators of Marine Health and

Processes Through Provisioning and Population Trends

Sep. 2012 - Sep. 2014

Trevor Bringloe, University of Guelph, Integrative Biology, Status: Completed, Sep.

2012 - Sep. 2014

Other Supervisor(s): Sarah Adamowicz (Co-Supervisor)

Thesis/Project Title: Hierarchical spatial structuring of stream insect diversity through

DNA barcoding

Sep. 2011 - Dec. 2013

Gillian Martin, University of Guelph, Integrative Biology, Status: Completed, Sep.

2011 - Dec. 2013

Other Supervisor(s): Sarah Adamowicz (Co-Supervisor)

Thesis/Project Title: Increasing taxonomic resolution reduces strength of

metacommunity patterns in freshwater stream invertebrates

Committee Member

Number of Students: 32

Committee Member: Doctorate

Sep. 2018 - present

Gutgesell, Marie, Status: Completed

Jan. 2018 - Dec. 2022

Stefan Schneider, Status: Completed, Jan. 2018 - Dec. 2022

Jan. 2016 - Dec. 2019

Spencer Moncton, Status: Completed, Sep. 2015 - Dec. 2019

Jan. 2012 - Dec. 2015

Reid, Kevin, Status: Completed, Feb. 2012 - Dec. 2015

Jan. 2012 - Apr. 2013

Nuzhat Rafique, Status: Completed, Jan. 2012 - Apr. 2013

Sep. 2011 - Aug. 2015

La, Van, Status: Completed, Sep. 2011 - Aug. 2015

Description: Student Start Date: 2011-09-01. Student End Date: 2015-08-11.

PHD.IBIO. Graduate Advising - Committee - Doctoral

Sep. 2011 - Nov. 2014

Harvey, Eric, Status: Completed, Sep. 2011 - Nov. 2014

Sep. 2006 - Sep. 2015

Ward-Campbell, Belinda, Status: Completed, Feb. 2006 - Sep. 2015

Sep. 2006 - Dec. 2013

Olathe MacIntyre, Status: Completed, Jan. 2006 - Dec. 2013

Sep. 2006 - Dec. 2009

Astrid Schwalb, Status: Completed, Sep. 2006 - Dec. 2009

Jan. 2005 - Dec. 2009

Jennifer Shuter, Status: Completed, Sep. 2005 - Dec. 2009

Committee Member: Master's Thesis

Sep. 2018 - Dec. 2020

Quarrell, Nathaniel, Status: Completed

Sep. 2018 - Dec. 2020

Van Drunen, Stephen, Status: Completed

Sep. 2018 - Dec. 2020

Wang, Xueqi, Status: Completed

Sep. 2018 - Dec. 2019

Chatila-Amos, Kamil, Status: Completed

Sep. 2018 - Dec. 2019

Ho, Chris, Status: Completed

Sep. 2018 - Nov. 2019

Bain, Margaret, Status: Completed

Jan. 2018 - Dec. 2018

HOLUB, RACHEL, Status: Completed, Sep. 2016 - Dec. 2018

Sep. 2015 - Dec. 2017

Pyle, Michelle, Status: Completed, Sep. 2015 - Dec. 2017

Sep. 2014 - Dec. 2016

Fairweather, Aaron, Status: Completed, Sep. 2014 - Dec. 2016

Sep. 2013 - Dec. 2016

Wright, Michael, Status: Completed, Sep. 2013 - Dec. 2016

Sep. 2013 - Oct. 2014

Paterson, Caitlin, Status: Completed, Sep. 2013 - Oct. 2014

Jan. 2013 - Apr. 2015

Rogers, Michael, Status: Completed, Sep. 2013 - Apr. 2015

Description: Student Start Date: 2013-09-01. Student End Date: 2015-04-30.

MSC.IBIO. Graduate Advising - Committee - Masters

Jan. 2010 - Dec. 2012

Elizabeth Boyle, Status: Completed, Sep. 2010 - Dec. 2012

Sep. 2009 - Aug. 2011

Alisha Duwyn, Status: Completed, Sep. 2009 - present

Jan. 2009 - Aug. 2010

Sam Howard, Status: Completed, Sep. 2009 - Aug. 2010

Sep. 2008 - Dec. 2010

Keith Stamplecoskie, Status: Completed, Sep. 2008 - Dec. 2010

Sep. 2008 - Dec. 2009

Tremayne Stanton Kennedy, Status: Completed, Sep. 2008 - Dec. 2009

Sep. 2007 - Dec. 2009

Megan Sellick, Status: Completed, Jan. 2007 - Dec. 2009

Sep. 2006 - Dec. 2009

Sarah Pinto, Status: Completed, Sep. 2006 - Dec. 2009

Sep. 2006 - Dec. 2008

Lynn Bouvier, Status: Completed, Sep. 2006 - Dec. 2008

Sep. 2005 - Dec. 2006

Kate Crosby, Status: Completed, Sep. 2005 - Dec. 2006

Academic Advisor

Number of Students: 2

Academic Advisor: Doctorate

Jan. 2012 - Dec. 2012

Thiago Goncalves-Souza, University of Guelph, Integrative Biology, Status:

Completed, Sep. 2010 - Dec. 2014

Thesis/Project Title: Metacommunity versus biogeography: a case study of two

groups of Neotropical vegetation-dwelling arthropods

Description: Brazilian exchange student with the SANDWICH program

Jan. 2009 - Jan. 2010

Tadeau Siqueira, University of Guelph, Integrative Biology, Status: Completed, Sep.

2007 - Dec. 2010

Thesis/Project Title: Metacommunity dynamics in aquatic insect communities from

Brazil

Description: Brazilian exchange student with the SANDWICH program

Other Student Supervision

Principal Supervisor

Number of Students: 21

Principal Supervisor: Bachelor's Honours

Sep. 2022 - Apr. 2023

Nathan Lewis, Status: Completed

Thesis/Project Title: Cold Temperatures and High Urbanization Favour Melanic

Eastern Gray Squirrels on a North American Scale

Sep. 2022 - Apr. 2023

Christa Wise, Status: Completed

Thesis/Project Title: Sources of variation in U of G Arboretum Winter Bird Count

Data: 1980-2023

Sep. 2021 - Apr. 2022

Brittney Bell, Status: Completed

Thesis/Project Title: A Fly out of water: are aquatic and terrestrial life stages of insect

populations linked?

Sep. 2020 - Apr. 2021

Kaelyn Racine, University of Guelph, Integrative Biology, Status: Completed

Thesis/Project Title: Core versus rare in microbiome communities

Sep. 2019 - Apr. 2020

Catherine Rutherford, University of Guelph, Integrative Biology, Status: Completed

Thesis/Project Title: A meta-analysis of density dependent dispersal in small

mammals

Sep. 2019 - Apr. 2020

Margot Laliberte, University of Guelph, Integrative Biology, Status: Completed

Thesis/Project Title: Earthworm biodiversity in agricultural gradient.

Sep. 2019 - Apr. 2020

Emma Kominek, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Ecological and evolutionary processes in arctic Diptera

Sep. 2019 - Apr. 2020

Fiona Persaud, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Ethanol eDNA versus metabarcoding in stream macroinvertebrate sampling.

Sep. 2017 - Apr. 2018

Kaitlyn Ranft, University of Guelph, Integrative Biology, Status: Completed Thesis/Project Title: Small mammal body mass and capture probability

Sep. 2017 - Apr. 2018

Danielle Ahrens, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Meta-analysis of red shiner invasions

Sep. 2015 - Apr. 2016

Julia Sunga, University of Guelph, Integrative Biology, Status: Completed Thesis/Project Title: Assessment of road avoidance in American badger, Taxidea taxus jacksoni, at three spatial scales in southern Ontario, Canada

Jan. 2015 - Apr. 2015

Carolyn Trombley, University of Guelph, Integrative Biology, Status: Completed Thesis/Project Title: General laws in community ecology

Jan. 2015 - Apr. 2015

Genevieve Pintel, University of Guelph, Integrative Biology, **Status:** Completed **Thesis/Project Title**: Biogeography versus metacommunity spatial scales

Sep. 2014 - Apr. 2015

RandeLee MacDonald, University of Guelph, Integrative Biology, Status: Completed Thesis/Project Title: Impacts of livetrap sound intensity on shrew mortality rates

Sep. 2014 - Apr. 2015

Carolyn Gibson, University of Guelph, Integrative Biology, **Status:** Completed **Thesis/Project Title**: Controls on understory species composition and vegetation carbon pools following wildfire in interior Alaska

Sep. 2013 - Apr. 2014

Krystall Gorringe, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Explicit community definitions in the study of latitudinal gradients

Jan. 2012 - Apr. 2012

Lisa Vollbrecht, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Improving Dichotomous Keys for Undergraduate Teaching

Sep. 2011 - Apr. 2012

Aaron Zoldero, University of Guelph, Integrative Biology, **Status:** Completed **Thesis/Project Title**: Variation in upland habitat differentially affects wetland Anurans in Algonquin Provincial Park: implications for timber harvest.

Sep. 2011 - Jan. 2012

Danielle Eisner, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Freshwater fish community composition in stream ecosystems affected by shore degradation

Sep. 2010 - Apr. 2011

Lucija Prelovec, University of Guelph, Integrative Biology, **Status:** Completed **Thesis/Project Title**: A test for trade offs and dispersal limitation in a subarctic zooplankton metacommunity

Sep. 2010 - Apr. 2011

Kyle Gillespie, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Top-down, environmental and spatial effects on eelgrass (Zostera marina) fish and invertebrate community dynamics in a temperate pacific ecosystem: ecological and resource management perspectives

Researcher Supervision

Academic Advisor

Number of Students: 1

Academic Advisor: Visiting Scholars

Nov. 2022 - Mar. 2023

Joas Brito, Status: In Progress

Thesis/Project Title: Metacommunity and biogeography of adult odonata

SUPERVISORY ACTIVITIES EXTERNAL TO THE UNIVERSITY OF GUELPH

Graduate Supervision

Committee Member

Number of Students: 3

Committee Member: Doctorate

Apr. 2023 - Apr. 2027

Andreia Alves, Texas State University, San Marcos, Status: In Progress, Sep. 2022 -

present

Jan. 2018 - Dec. 2022

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Zachary Mitchel, **Status**: Completed, Sep. 2017 - Dec. 2022 **Description**: PhD at Texas State University, San Marcos.

Committee Member: Master's Thesis

Sep. 2006 - Dec. 2009

Shubha Pandit, Status: Completed, Sep. 2006 - Dec. 2009

Description: McMaster - Kolasa.

Academic Advisor

Number of Students: 1

Academic Advisor: Doctorate

Jan. 2017 - Jul. 2017

Danielle Petsch, University of Guelph, Integrative Biology, **Status**: Completed **Thesis/Project Title**: Dispersal mode and flooding regime as drivers of macrophyte

and zooplankton metacommunity structure in a Neotropical floodplain **Description:** Brazilian exchange student with the SANDWICH program

7. RESEARCH AND SCHOLARSHIP

SCHOLARSHIP STATEMENT

Research Funding (Awarded or Completed)

Title & Role	Source & Type	Amount	Dates
Title: Improving environmental effects monitoring and assessment using DNA-based	Funding Type: Grant	Funding Total: \$360,000 CAD Amount Received:	Funding Dates: Jan. 2025 - Dec. 2027
approaches	Grant Type: Operating	\$100 CAD	
Role:	Operating		
Co-applicant			
Title:	Organization:	Funding Total:	Funding Dates:
Phylogenetic signals of Arctic Diptera	Polar Knowledge Canada	\$2,307 CAD	Jan. 2019 - Aug. 2019
Role:	Funding Type: Grant		
Co-applicant	Ordine .		
Title:	Organization:	Funding Total:	Funding Dates:
Metacommunity dynamics at multiple scales	Natural Sciences and Engineering Research Council of Canada	\$200,000 CAD	Apr. 2018 - Mar. 2023

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Title & Role	Source & Type	Amount	Dates
	(NSERC)		
Role:			
Principal Applicant	Funding Type: Grant		
	Grant Type: Establishment		
Title:	Organization:	Funding Total:	Funding Dates:
Aquatic ecosystem services and eDNA/metabarcoding	Food from Thought	\$79,500 CAD	Jan. 2018 - Dec. 2020
	Funding Type:		
Role:	Grant		
Co-applicant			
Title:	Organization:	Funding Total:	Funding Dates:
Exploring the Use of Student Evaluations of Teaching Effectiveness by Faculty in the	University of Guelph	\$12,095 CAD	Sep. 2017 - Aug. 2018
College of Biological Sciences	Funding Type: Grant		
Role:			
Co-applicant			
Title:	Organization:	Funding Total:	Funding Dates:
Fostering metacognitive approaches to course engagement in undergraduate	University of Guelph Funding Type:	\$7,000 CAD	Sep. 2017 - Aug. 2018
student learning.	Grant		
Role:			
Co-applicant			
Title:	Organization:	Funding Total:	Funding Dates:
NSERC-USRA	Natural Sciences and Engineering Research Council of Canada	\$4,500 CAD	May 2016 - Aug. 2016
Role:	(NSERC)	Amount Received:	
Co-applicant	(I TOLITO)	\$100 CAD	
	Funding Type:		
	Scholarship		
Title:	Organization:	Funding Total:	Funding Dates:
Discovery Grant	Natural Sciences and	\$130,000 CAD	Apr. 2012 - Mar. 2017
Discovery Static	Engineering Research	ψ100,000 Ο/Δ	πρι. 2012 - Ividi. 2017
Role:	Council of Canada	Amount Received:	
Principal Investigator	(NSERC)	\$130,000 CAD	
	From Alice or Trace	,	
	Funding Type:		
	Grant		

Title & Role	Source & Type	Amount	Dates
Title: NSTP Role: Co-applicant	Organization: Natural Sciences and Engineering Research Council of Canada (NSERC) Funding Type: Grant	Funding Total: \$2,325 CAD Amount Received: \$2,325 CAD	Funding Dates: May 2011 - Aug. 2011
Title: Northern Research Fund Role: Co-applicant	Organization: Churchill Northern Studies Centre Funding Type: Grant	Funding Total: \$2,500 CAD Amount Received: \$2,500 CAD	Funding Dates: May 2011 - Aug. 2011
Title: Northern Research Internship Role: Co-applicant	Organization: Natural Sciences and Engineering Research Council of Canada (NSERC) Funding Type: Fellowship	Funding Total: \$8,500 CAD Amount Received: \$8,500 CAD	Funding Dates: May 2010 - Aug. 2010
Title: NSTP Role: Co-applicant	Organization: Natural Sciences and Engineering Research Council of Canada (NSERC) Funding Type: Grant	Funding Total: \$2,325 CAD Amount Received: \$2,325 CAD	Funding Dates: May 2010 - Aug. 2010
Title: USRA Role: Co-applicant	Organization: Natural Sciences and Engineering Research Council of Canada (NSERC) Funding Type: Scholarship	Funding Total: \$4,500 CAD Amount Received: \$4,500 CAD	Funding Dates: May 2010 - Aug. 2010
Title: Northern Research Fund Role: Co-applicant	Organization: Churchill Northern Studies Centre Funding Type: Grant	Funding Total: \$3,000 CAD Amount Received: \$3,000 CAD	Funding Dates: May 2010 - Aug. 2010

Title & Role	Source & Type	Amount	Dates
Title: NSTP	Organization: Natural Sciences and	Funding Total: \$2,325 CAD	Funding Dates: May 2010 - Aug. 2010
Role: Co-applicant	Engineering Research Council of Canada (NSERC)	Amount Received: \$2,325 CAD	Way 2010 - Aug. 2010
	Funding Type: Grant		
Title:	Organization:	Funding Total:	Funding Dates:
Metacommunity dynamics in Churchill rock pools	Natural Sciences and Engineering Research Council of Canada (NSERC)	\$4,500 CAD	Sep. 2009 - Aug. 2010
Role: Principal Investigator			
r inicipal investigator	Funding Type: Grant		
Title:	Organization:	Funding Total:	Funding Dates:
Support work of Ingrid Ng in the North	Natural Sciences and Engineering Research Council of Canada (NSERC)	\$1,878 CAD	Sep. 2008 - Aug. 2009
Role:	(NOLIKO)		
Principal Investigator	Funding Type: Grant		
Title:	Organization:	Funding Total:	Funding Dates:
Effect of logging on zooplankton community structure	Natural Sciences and Engineering Research Council of Canada (NSERC)	\$4,500 CAD	Sep. 2008 - Aug. 2009
Role:			
Principal Investigator	Funding Type: Grant		
Title:	Organization:	Funding Total:	Funding Dates:
Freshwater metacommunity: dispersal through space and time	Natural Sciences and Engineering Research Council of Canada (NSERC)	\$115,500 CAD	Sep. 2007 - Aug. 2012
Role:			
Principal Investigator	Funding Type: Grant		
Title:	Organization:	Funding Total:	Funding Dates:
Aquatic metacommunity dynamics laboratory	Canada Foundation for Innovation (CFI)	\$162,341 CAD	Sep. 2007 - Aug. 2008
	Funding Type:		

Title & Role	Source & Type	Amount	Dates
Principal Investigator	Grant		
Title: Sampling and analysis of zooplankton metacommunities	Funding Type: Grant	Funding Total: \$6,500 CAD	Funding Dates: Sep. 2006 - present
Role: Principal Investigator			
Title: DNA Barcoding of Ontario Cladodera Role: Principal Investigator	Organization: Natural Sciences and Engineering Research Council of Canada (NSERC) Funding Type: Grant	Funding Total: \$6,500 CAD	Funding Dates: Sep. 2005 - Aug. 2006

Lifetime Funding Summary

Total amount of funding received	.\$1,122,596 CAD
As Principal Investigator	\$431.719 CAD

PUBLICATIONS

Summary of Publications

Category	Refereed	Non-Refereed
Journal Articles	101	1
Journal Issues		
Books		
Book Chapters	2	
Book Reviews		
Conference Publications	1	
* Denotes Student Contribution	in most cases	

^{*} Denotes Student Contribution in most cases

Refereed Publications

Journal Articles

- *Brito, J., Cottenie, K., Cruz, G., Calvão, L., Oliveira-Junior, J., Carvalho, F., . . . Juen, L. (2024, June). Odonata responses to dispersal and niche processes differ across Amazonian endemism regions. *Insect Conservation and Diversity*. doi:10.1111/icad.12764 (*Published*)
- *Maggia, M., Decaëns, T., Cottenie, K. & Steinke, D. (2024). Homogeneous earthworm communities in Southern Ontario. *European Journal of Soil Biology*, 122, 103655 -103655. (Published)

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- 3. *Halhed, A., Petrullo, L., Boutin, S., Dantzer, B., McAdam, A., Wu, M. & Cottenie, K. (2024). Consistent spatial patterns in microbial taxa of red squirrel gut microbiomes. *Environmental Microbiology Reports*, 16, e13209 e13209. (*Published*)
- 4. *Brito, J., Cottenie, K., Brasil, L., Bastos, R., Ferreira, V., Cruz, G., . . . Juen, L. (2024). Main drivers of dragonflies and damselflies (Insecta; Odonata) metacommunities in streams inside protected areas in the Brazilian Amazon. *Environmental Monitoring and Assessment*, 196, 281 281. (*Published*)
- Perez Rocha M., Cottenie K., Clein K., Elkins L., Mangold R., Nowlin W., Perkin J., Wright K., Schwalb A. (2024, January). Using a Nested Sampling Design Across Spatial Scales to Gain Insights Into Distribution Patterns of Fishes, Mussels and Macroinvertebrates in a Riverine System. *Journal of Biogeography*, 51, 2456 -2468. doi:10.1111/jbi.15003 (*Published*)
- 6. *Gleason, J., Hanner, R. & Cottenie, K. (2023). Hidden diversity: DNA metabarcoding reveals hyper-diverse benthic invertebrate communities. *BMC Ecology and Evolution*, 23, 19 19. (*Published*)
- 7. *Rutherford, K., Cottenie, K. & *Denomme-Brown, S. (2023). To go or not to go: variable density-dependent dispersal in small mammals. *Journal of Mammalogy*, 104, 783 791. (*Published*)
- 8. *Omer, K., Jacobs, S., Bettger, B., Dawson, J., Graether, S., Murrant, C., . . . Newton, G. (2023). Evaluating and Improving the Formative Use of Student Evaluations of Teaching. *Canadian Journal for the Scholarship of Teaching and Learning*, 14, n1 n1. (*Published*)
- 9. *Mitchell, Z., Cottenie, K. & Schwalb, A. (2023). Trait-based and multi-scale approach provides insight on responses of freshwater mussels to environmental heterogeneity. *Ecosphere*, 14, e4533 e4533. (*Published*)
- Rocha M., Morris T., Cottenie K., Schwalb A. (2023). Limitations of beta diversity in conservation site selection. *Ecological Indicators*, 154, 110732 - 110732. (*Published*)
- *Ferreira, N., Omena, P., Gonçalves-Souza, T., Cottenie, K. & Júnior, M. (2022). Water availability and quality determine temporal synchrony and beta diversity of microcrustaceans in temporary pools. *Freshwater Science*, 41, 226 - 235. (*Published*)
- Dunck B., Rodrigues L., Lima-Fernandes E., Cássio F., Pascoal C., Cottenie K. (2021, December). Priority effects of stream eutrophication and assembly history on beta diversity across aquatic consumers, decomposers and producers. *Science of The Total Environment*, 797, 149106 - 149106. doi:10.1016/j.scitotenv.2021.149106 (*Published*)

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- 13. *Maggia, M., Decaëns, T., Lapied, E., Dupont, L., Roy, V., Schimann, H., . . . Steinke, D. (2021, August). At each site its diversity: DNA barcoding reveals remarkable earthworm diversity in neotropical rainforests of French Guiana. *Applied Soil Ecology*, 164, 103932 103932. doi:10.1016/j.apsoil.2021.103932 (*Published*)
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- 15. *Persaud, S., Cottenie, K. & *Gleason, J. (2021, January). Ethanol eDNA Reveals Unique Community Composition of Aquatic Macroinvertebrates Compared to Bulk Tissue Metabarcoding in a Biomonitoring Sampling Scheme. *Diversity*, 13, 34 34. doi:10.3390/d13010034 (*Published*)
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- 19. *Trombley, C., Schwalb, A., Hardy, T. & Cottenie, K. (2021). Spatio-temporal analyses show conflicting evidence of the role of an invasive minnow in the decline of an endangered desert fish endemic to the south-western U.S.A. *Freshwater Biology*, 66, 2158 2169. doi:10.1111/fwb.13823 (*Published*)
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- 23. Kremer, S., Linquist, S., * Saylor, B., Elliott, T., Gregory, T. & Cottenie, K. (2020, May). Transposable element persistence via potential genome-level ecosystem engineering. *BMC Genomics*, 21, 367 367. doi:10.1186/s12864-020-6763-1 (*Published*)
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- 36. *McDonald, L, * Van Woudenberg, M, * Dorin, B, * Adcock, A, McMullin, R & Cottenie, K. (2017, January). The effects of bark quality on corticolous lichen community composition in urban parks of southern Ontario. *Botany*, 95, 1141-1149. (*Published*)
- 37. *Ward-Campbell, B., Cottenie, K., Mandrak, N. & McLaughlin, R. (2017, January). Fish assemblages in agricultural drains are resilient to habitat change caused by drain maintenance. *Canadian Journal of Fisheries and Aquatic Sciences*, 74, 1538 1548. doi:10.1139/cjfas-2016-0361 (*Published*)
- 38. *Bringloe, T., Cottenie, K., *Martin, G. & Adamowicz, S. (2016, August). The importance of taxonomic resolution for additive beta diversity as revealed through DNA barcoding. *Genome*, 59, 1130 1140. doi:10.1139/gen-2016-0080 (*Published*)
- 39. Linquist, S., Gregory, T., *Elliott, T., *Saylor, B., Kremer, S. & Cottenie, K. (2016, May). Yes! There are Resilient Generalizations (or "Laws") in Ecology. *The Quarterly Review of Biology*, 91, 119 131. doi:10.1086/686809 (*Published*)
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- 44. Pandit, S., Cottenie, K., Enders, E. & Kolasa, J. (2016). The role of local and regional processes on population synchrony along the gradients of habitat specialization. *Ecosphere*, 7, e01217. (*Published*)
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- 52. Piasecka A., Bernstein R., Ollevier F., Meersman F., Souffreau C., Bilad R., Cottenie K., Vanysacker L., Denis C., Vankelecom I. (2015, February). Study of biofilms on PVDF membranes after chemical cleaning by sodium hypochlorite. Separation and Purification Technology, 141, 314 321. doi:10.1016/j.seppur.2014.12.010 (Published)
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- 85. Houlahan J., Currie D., Cottenie K., Cumming G., Ernest S., Findlay C., Fuhlendorf S., Gaedke U., Legendre P., Magnuson J., McArdle B., Muldavin E., Noble D., Russell R., Stevens R., Willis T., Woiwod I., Wondzell S. (2007, February). Compensatory dynamics are rare in natural ecological communities. *Proceedings of the National Academy of Sciences*, 104, 3273 3277. doi:10.1073/pnas.0603798104 (*Published*)
- 86. Halpern B., Cottenie K. (2007). Little evidence for climate effects on local-scale structure and dynamics of California kelp forest communities. *Global Change Biology*, 13, 236 251. doi:10.1111/j.1365-2486.2006.01243.x (*Published*)
- 87. Halpern B., Cottenie K., Broitman B. (2006, May). Strong Top-Down Control in Southern California Kelp Forest Ecosystems. *Science*, 312, 1230 1232. doi:10.1126/science.1128613 (*Published*)
- 88. Ashlock, D., Cottenie, K., Carson, L., Bryden, K. & Corns, S. (2006, January). An Evolutionary Algorithm for the Selection of Geographically Informative Species. 2006 IEEE Symposium on Computational Intelligence and Bioinformatics and Computational Biology, 1 7. doi:10.1109/CIBCB.2006.330947 (Published)
- 89. Halpern B., Cottenie K., Broitman B. (2006, January). Top-Down Vs. Bottom-Up Effects in Kelp Forests. *Science*, 313, 1737 1739. doi:10.1126/science.313.5794.1737c (*Published*)
- 90. Cottenie K. (2005). Integrating environmental and spatial processes in ecological community dynamics. *Ecology Letters*, 8, 1175 1182. doi:10.1111/j.1461-0248.2005.00820.x (*Published*)
- 91. Michels E., Cottenie K., Van de Meutter F., Declerck S., De Meester L. (2005). Ecologische gevolgen van verbindingen tussen leefgebieden: de vijvers van het natuurreservaat De Maten (Genk). *Natuur. focus*, 4, 16 23. (*Published*)
- 92. Cottenie K., Meester L. (2004). Metacommunity Structure: Synergy of Biotic Interactions as Selective Agents and Dispersal as Fuel. *Ecology*, 85, 114 119. doi:10.1890/03-3004 (*Published*)
- 93. Cottenie K., Meester L. (2003). Comment to Oksanen (2001): reconciling Oksanen (2001) and Hurlbert (1984). *Oikos*, 100, 394 396. doi:10.1034/j.1600-0706.2003.11953.x (*Published*)
- 94. Cottenie K., Meester L. (2003). Connectivity and cladoceran species richness in a metacommunity of shallow lakes. *Freshwater Biology*, 48, 823 832. doi:10.1046/j.1365-2427.2003.01050.x (*Published*)
- 95. Cottenie K., Michels E., Nuytten N., Meester L. (2003). Zooplankton Metacommunity Structure: Regional Vs. Local Processes in Highly Interconnected Ponds. *Ecology*,

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- 84, 991 1000. doi:10.1890/0012-9658(2003)084[0991:ZMSRVL]2.0.CO;2 (Published)
- 96. Forró L., De Meester L., Cottenie K., Dumont H. (2003). An update on the inland cladoceran and copepod fauna of Belgium, with a note on the importance of temporary waters. *Belgian journal of zoology*, 133, 31 36. (*Published*)
- 97. De Meester L., Forro L., Michels E., Cottenie K., Louette G., Dumont H. (2002). The status of some exotic cladoceran (Crustacea: Branchiopoda) species in the Belgian fauna. *Bulletin of the Royal Belgian Institute of Natural Sciences Biology*, 72, 87 88. Retrieved from http://biblio.naturalsciences.be/rbins-publications/bulletin-of-the-royal-belgian-institute-of-natural-sciences-biologie/72-sup-2002/biologie-2002-72-suppl 87-88.pdf (*Published*)
- 98. Cottenie, K., Nuytten, N., Michels, E. & De, Meester L. (2001, January). Zooplankton community structure and environmental conditions in a set of interconnected ponds. *Hydrobiologia*, 442, 339 350. doi:10.1023/A:1017505619088 (*Published*)
- Michels E., Cottenie K., Neys L., De Gelas K., Coppin P., De Meester L. (2001). Geographical and genetic distances among zooplankton populations in a set of interconnected ponds: a plea for using GIS modelling of the effective geographical distance. *Molecular Ecology*, 10, 1929 - 1938. (*Published*)
- 100. Michels E., Cottenie K., Neys L., De Meester L. (2001). Zooplankton on the move: first results on the quantification of dispersal of zooplankton in a set of interconnected ponds. *Hydrobiologia*, 442, 117 126. (*Published*)
- 101. Maes J., Taillieu A., Van Damme P., Cottenie K., Ollevier F. (1998, August). Seasonal Patterns in the Fish and Crustacean Community of a Turbid Temperate Estuary (Zeeschelde Estuary, Belgium). *Estuarine, Coastal and Shelf Science*, 47, 143 151. doi:10.1006/ecss.1998.0350 (*Published*)

Book Chapters

- 1. Chase J., Amarasekare P., Cottenie K., Gonzalez A., Holt R., Holyoak M., Hoopes M., Leibold M., Loreau M., Mouquet N. (2005). Competing theories for competitive metacommunities. *Metacommunities* (pp. 335 354). University of Chicago Press Chicago/London. (*Published*)
- Cottenie K., De Meester L. (2005). Local interactions and local dispersal in a zooplankton metacommunity. *Metacommunities. University of Chicago Press,* Chicago (pp. 189 - 211). (Published)

Conference Publications

 *Porter, E., Luo, M., Lit, B., McKechnie, I., Saha, J., Ratra, P., . . . Jacobs, S. (2022). Developing a Transdisciplinary Citizen Science Tool for Experiential Learning in Undergraduate Education: Squirrel Life in a Nutshell. In *INTED2022 Proceedings* (p. 1781 - 1790) IATED. (*Published*)

Non-Refereed Publications

Journal Articles

 Saylor, B., Kremer, S., Gregory, T. & Cottenie, K. (2019). Genomic environments and their influence on transposable element communities. bioRxiv, 667121 - 667121. (Published)

Other Scholarly Publications

Summary of Publications

Reports 2

Reports

- Schwalb, A., Morris, T.J. & Cottenie, K. (2013). Freshwater mussel metacommunity analyses - 2: The impact of differences in dispersal abilities and host infecting strategies on the importance of structuring mussel assemblages (p. 50).
- 2. Schwalb*, A., Morris, T.J. & Cottenie, K. (2010). Freshwater mussel metacommunity analyses (p. 60).

PRESENTATIONS (INVITED)

- 1. (Jan. 2016). **Invited Lecture / Keynote Address**. Biology Department, Texas State University San Marcos, . . (Regional) (Professional Service)
- 2. Cottenie, K. & Winegardner*, A. (2014). **Species sorting and cryptic dispersal: a landscape-scale experiment**. Entomology 2014, Entomological Society of America annual meeting, Portland, United States of America
- 3. (Jan. 2014). **Invited Lecture / Keynote Address**. Biomathematics & Diomathematics & Seminar series, University of Guelph. Canada-Ontario. (Regional) (Professional Service)
- 4. (Sep. 2013). **Invited Lecture / Keynote Address**. NIOO, Wageningen. Netherlands. (Regional) (Professional Service)
- 5. (Sep. 2013). **Invited Lecture / Keynote Address**. Donana Research Station, Sevilla. Spain. (Regional) (Professional Service)

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- 6. (Sep. 2013). **Invited Lecture / Keynote Address**. Department of Ecology and Environmental Sciences, University of Umea. Sweden. (Regional) (Professional Service)
- 7. Adamowicz, S. J., Martin* G. & Cottenie K. (2013). **Impact of taxonomic resolution on the detection of stream community patterns**. 10th Annual Canadian Rivers Institute Day, Waterloo, Canada
- 8. (Sep. 2012). **Invited Lecture / Keynote Address**. Section Ecology, Evolution and Biodiversity Conservation, K. U. Leuven. Belgium. (Regional) (Professional Service)
- 9. (Sep. 2011). **Invited Lecture / Keynote Address**. Department of Biology, University of Dalhousie, . . (Regional) (Professional Service) <u>View supplementary material</u>
- 10. (Sep. 2010). **Invited Lecture / Keynote Address**. Department of Biology, University of Toronto Mississauga, . . (Regional) (Professional Service) View supplementary material
- 11. (Sep. 2009). **Invited Lecture / Keynote Address**. Presented an invited seminar at the Department of Biology, University of Oulu, . . (Regional) (Professional Service) View supplementary material
- 12. (Sep. 2009). **Invited Lecture / Keynote Address**. Zoology Department, UBC, . . (Regional) (Professional Service) View supplementary material
- 13. (Sep. 2009). **Invited Lecture / Keynote Address**. School of Integrative Biology, University of Illinois, . . (Regional) (Professional Service) View supplementary material
- 14. (Sep. 2009). **Invited Lecture / Keynote Address**. Department of Ecology and Evolutionary Biology, University of Toronto, . . (Regional) (Professional Service) <u>View supplementary material</u>
- 15. (Sep. 2008). **Invited Lecture / Keynote Address**. Biology Department, Laurentian University, . . (Regional) (Professional Service) View supplementary material
- 16. (Sep. 2008). **Invited Lecture / Keynote Address**. Department of Zoology, University of Oklahoma, . . (Regional) (Professional Service) View supplementary material
- 17. (Sep. 2006). **Invited Lecture / Keynote Address**. Department of Mathematics and Statistics, University of Guelph, . . (Regional) (Professional Service) View supplementary material
- 18. (Sep. 2006). **Invited Lecture / Keynote Address**. Department of Biology, Queen's University, . . (Regional) (Professional Service)

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View supplementary material

- 19. (Sep. 2006). **Invited Lecture / Keynote Address**. Department of Biology, McMaster University, . . (Regional) (Professional Service) <u>View supplementary material</u>
- 20. (Sep. 2005). **Invited Lecture / Keynote Address**. Department of Biological Sciences, University of Montreal, . . (Regional) (Professional Service) View supplementary material
- 21. (Sep. 2005). **Invited Lecture / Keynote Address**. Aquatic Ecology Group, University of Waterloo, . . (Regional) (Professional Service) <u>View supplementary material</u>
- 22. (Sep. 2005). **Invited Lecture / Keynote Address**. Institute of the Sciences of Evolution, University of Montpellier, . . (Regional) (Professional Service) View supplementary material
- 23. (Sep. 2005). **Invited Lecture / Keynote Address**. Laboratory of Aquatic Ecology, . . (Regional) (Professional Service) View supplementary material
- 24. (Sep. 2004). **Invited Lecture / Keynote Address**. Department of Environmental Science, Policy and Management, University of California, . . (Regional) (Professional Service) <u>View supplementary material</u>
- 25. (Sep. 2004). **Invited Lecture / Keynote Address**. Department of Biology, University of Regina, . . (Regional) (Professional Service) <u>View supplementary material</u>

PRESENTATIONS (OTHER)

- 1. Denomme-Brown*, S, Cottenie, K & McAdam, A. (Jan. 2018). **Variation in space and time: examining conspecific and heterospecific density-dependent dispersal in woodland rodents.**. American Society of Mammalogists, Manhattan. Kansas. (International) Paper. Presented. Refereed: No
- 2. Denomme-Brown*, S, Cottenie, K & McAdam, A. (Jan. 2018). **Variation in space and time: examining conspecific and heterospecific density-dependent dispersal in woodland rodents.**. Canadian Society for Ecology and Evolution Annual Meeting (2018), Guelph. Canada-Ontario. (National)

Paper. Presented. Refereed: No

3. Gleason, J, Daniel-Simon, J, Cottenie, K & Rooney, R. (Jan. 2018). **Wetland community assembly across a gradient of environmental filtering and trophic levels.**. Canadian Society for Ecology and Evolution Annual Meeting (2018), Guelph. Canada-Ontario. (National) Paper. Presented. Refereed: No

- 4. Pyle* MN, Adamowicz SJ, Cottenie K. (2017). **Insights into post-glacial colonization of northern environments: Using insect phylogeny to determine the role of biological traits**. Ontario Ecology, Ethology, and Evolution Colloquium, York University, Canada
- 5. Trombley*, C., Schwalb, A., Hardy, T. & Cottenie, K. (2017). **Endangered endemic cyprinid minnow exhibits different spatial and temporal patterns to native and invasive species in a perennial desert stream**. Canadian Society for Ecology and Evolution, Victoria, BC, Canada
- 6. Cottenie, K., Coulter, C., Gorrie, R., Husband, B., Jacobs, S., & Merrett, S. (2016). **Identifying students at risk: student learning analytics and other metrics.**. Teaching and Learning Innovations conference, Guelph, Canada
- 7. Denomme-Brown*, S., Rye, L. & Cottenie, K. (2016). **Adventures and explorations in specifications grading**. Teaching and Learning Innovations conference, Guelph, Canada
- 8. Denomme-Brown, S, McAdam, A & Cottenie, K. (Jan. 2016). **Long-Distance Dispersal in Peromyscus maniculatus**. OE3C, Toronto. Canada. (Regional) Paper. Presented. Refereed: No
- 9. Trombley, C, Schwalb, A, Hardy, T & Cottenie, K. (Jan. 2016). Alien invasion: Effects of the release of a bait fish on the abundance and distribution of a critically endangered endemic fish in the Virgin River. OE3C, Toronto. Canada. (Regional) Paper. Presented. Refereed: No
- 10. Trombley**, C., & Cottenie, K. (2015). **Different definitions of "community" influence conclusions in ecological research.**. Ontario Ecology, Ethology, and Evolution Colloquium, Toronto, Canada
- 11. Trombley*, C., Schwalb, A., Hardy, T. & Cottenie, K. (2015). Alien invasion: Effects of the release of a bait fish on the abundance and distribution of a critically endangered endemic fish in the Virgin River. Ontario Ecology, Ethology, and Evolution Colloquium, Toronto, Canada
- 12. Denomme-Brown*, S., McAdam, A., & Cottenie, K. (2015). **Synchrony in a Terrestrial Metacommunity**. Ontario Ecology, Ethology, and Evolution Colloquium, Toronto, Canada
- 13. Cottenie, K., Saylor*, B., Elliot*, T., Linquist, S., Kremer, S., Gregory, T. R. (2015). **Yes! There are stable generalisations ('laws') in ecology**. CSEE meeting, Saskatoon, Canada
- 14. Denomme-Brown*, S., McAdam, A., & Cottenie, K. (2015). **Long-Distance Dispersal in Peromyscus maniculatus.** Ontario Ecology, Ethology, and Evolution Colloquium, Toronto, Canada
- 15. Bringloe*, T., Adamowicz, S.J., Harvey, V.F.I., Jackson, J.K. & Cottenie, K. (2015). **Detecting signatures of competition from observational data: a novel approach**

- combining DNA barcoding, diversity partitioning, and checkerboards at small spatial scales. 6th International Barcode of Life Conference, Guelph, Canada
- 16. Martin*, G.K., Adamowicz, S.J. & Cottenie, K. (2015). **Improving our understanding of metacommunity structure using DNA barcoding.** 6th International Barcode of Life Conference, Guelph, Canada
- 17. *Saylor*, B, *Elliot*, T, Linquist, S, Kremer, S, Gregory, T & Karl Cotttenie. (May 2014). Finding the appropriate spatial scale a genomic study: Insights from transposable element data. Genomes to Biomes 1st joint meeting of the Canadian Society of Ecology & Evolution (CSEE), the Canadian Society of Zoology (CSZ) and the Society of Canadian Limnologists (SCL). May 29. Montreal Quebec, Montreal. Canada-Quebec. (International) Paper. Presented. Refereed: No
- 18. Vandamme*, S., Diopere, E., Cottenie, K., Raeymaekers, J.A.M., Vanelslander, B., Volckaert, F.A.M., Maes, G.E. (2014). **Comparative population genetics of flatfish reveals a common structuring oceanic front.** The 9th International Flatfish Symposium, Cle Elum, United States of America
- 19. Martin* G., Adamowicz S.J. & Cottenie K. (2013). **Relationship between taxonomic resolution and metacommunity dynamics in aquatic insects**. Joint Annual Meeting of the Entomological Society of Canada and Entomological Society of Ontario, Guelph, Canada
- 20. Cottenie, K., Saylor*, B., Elliot*, T., Gregory, T. Ryan, Kremer, S., Linquist S. (2013). **Generality in community ecology**. The International Society for the History, Philosophy, and Social Studies of Biology, Montpellier, France
- 21. Paterson*, C., MacDougall, A., & Cottenie, K. (2013). **Small restorations, big impacts: how habitat influences native pollinators in intensive agricultural landscapes.** Genomes to Biomes 1st joint meeting of the Canadian Society of Ecology & Evolution (CSEE), the Canadian Society of Zoology (CSZ) and the Society of Canadian Limnologists (SCL)., Montreal, Canada
- 22. Saylor*, B., Elliot*, T., Linquist, S., Kremer, S., Gregory, T. Ryan, Cottenie K. (2013). **Finding the appropriate spatial scale a genomic study**. Genomes to Biomes 1st joint meeting of the Canadian Society of Ecology & Evolution (CSEE), the Canadian Society of Zoology (CSZ) and the Society of Canadian Limnologists (SCL)., Montreal, Canada
- 23. Martin*, G., Adamowicz, S.J. & Cottenie K. (2013). The relationship between taxonomic resolution informed by DNA barcoding and metacommunity dynamics in aquatic insects. Ecological Society of America Annual Meeting, Minneapolis, United States of America
- 24. Schwalb, A.N., Morris, T.J., Mandrak, N.E., & Cottenie, K. (2012). **Distribution of unionid freshwater mussels depends on the distribution of host fishes on a regional scale**. Society for Freshwater Science Annual Meeting, Louisville, United States of America

- 25. Goncalves-Souza*, T., Romero, G. Q., & Cottenie, K. (2012). **Evolution on a tree: linking spider trait diversification to plant architecture and geographic distance**. 49th Annual Meeting of the Association for Tropical Biology and Conservation, Bonito, Brazil
- 26. Raeymaekers, J., De Leon, L. F., Chaves, J., Podos, J., Hendry, A. & Cottenie, K. (2012). **Exploring anthropogenic vs. natural influences on the evolution of Darwin's finches**. 1st Joint Congress on Evolutionary Biology, Ottawa, Canada
- 27. Saylor*, B., Elliot*, T. A., Linquist, S., Kremer, S. C., Gregory, T. R. & Cottenie, K. (2012). A novel application of ecological analyses to explain transposable element distribution: Bos taurus genome. 1st Joint Congress on Evolutionary Biology, Ottawa, Canada
- 28. Prelovec*, L. & Cottenie, K. (2011). A test for trade offs and dispersal limitation in a zooplankton metacommunity. Ontario Biology Day, Waterloo, Canada
- 29. Winegardner*, A. & Cottenie, K. (2011). **Zooplankton metacommunities responses to environmental change in Churchill, MB**. Churchill Northern Studies Centre and Parks Canada Science Symposium, Winnipeg, Canada
- 30. Gillespie**, K. X. M., Robinson, C. & Cottenie, K. (2011). **Anthropogenic pressures and the effect on fish & invertebrates in the Gulf Islands of South-Western British Columbia**. Latornell Conservation Research Symposium, Guelph, Canada
- 31. Gillespie**, K. X. M., Robinson, C. & Cottenie, K. (2011). **Top down control and local and regional scale environmental effects on fish and invertebrate community structure in a temperate eelgrass ecosystem**. Ontario Biology Day, Waterloo, Canada
- 32. Gillespie*, K. X. M., Robinson, C. & Cottenie, K. (2011). **Top down control and local and regional scale environmental effects on fish and invertebrate community structure in a temperate eelgrass ecosystem**. 2nd International Marine Conservation Congress, Victoria, Canada
- 33. Jones*, B. & Cottenie, K. (2011). The effects of salinity toxicity on species from a subarctic zooplankton metacommunity in Churchill, Manitoba. Churchill Northern Studies Centre and Parks Canada Science Symposium, Winnipeg, Canada
- 34. Cottenie, K. (Sep. 2010). **Inquiry-based learning in large classes (oral presentation)**. 23rd Annual Teaching and Learning Innovations Conference, Guelph. Canada-Ontario. (National)

Paper. Accepted. . Refereed: Yes

35. Cottenie, K. (Sep. 2010). **Zooplankton metacommunity responses to changing salinity in the sub arctic (oral presentation)**. CSEE/SCEE Conference 2010, Quebec City. Canada-Quebec. (National)

Paper. Accepted. . Refereed: Yes

36. Nudds, T. & Cottenie, K. (2010). **Inquiry-based learning in large classes**. 23rd Annual Teaching and Learning Innovations Conference, Guelph, Canada

- 37. Winegardner*, A. & Cottenie, K. (2010). **Zooplankton metacommunity responses to changing salinity in the sub arctic**. CSEE/SCEE Conference, Quebec City, Canada
- 38. Jones**, B. & Cottenie, K. (2010). **Omnibus trade-off test in a zooplankton metacommunity**. Ontario Biology Day, Toronto, Canada
- 39. Nudds, T. & Cottenie, K. (2010). **Inquiry-based learning in large classes**. OCUBE UnConference, Teaching Ourselves to Learn Together, Peterborough, Canada
- 40. Cottenie, K. (2010). **Concept mapping as a tool to engage students in critical thinking**. EdTech Un-Conference, Guelph, Canada
- 41. Cottenie, K. (Sep. 2009). **Aquatic metacommunities: a planktoneer's approach to ecology (oral presentation)**. Churchill Northern Studies Centre Symposium, Winnipeg. Canada-Manitoba. (National) Paper. Accepted. . Refereed: Yes
- 42. Cottenie, K. (Sep. 2009). **Species richness: fact or fiction? (oral presentation)**. CSEE/SCEE & Conference 2009, Halifax. Canada-Nova Scotia. (National) Paper. Accepted. . Refereed: Yes
- 43. Cottenie, K. (Sep. 2009). **Application of plant growth promoting rhizobacteria in a hydroponics system for advanced life support in space (oral presentation)**. GreenSys 2009, Quebec City. Canada-Quebec. (National) Paper. Accepted. . Refereed: Yes
- 44. Cottenie, K. (Sep. 2009). **The role of local and regional processes in the community structure of sub arctic rock pools (oral presentation)**. Ontario Biology Day, Windsor. Canada-Ontario. (National)
 Paper. Accepted. . Refereed: Yes
- 45. Cottenie, K. (Sep. 2009). **Effects of tree harvesting on zooplankton community succession (poster presentation)**. Ontario Biology Day, Windsor. Canada-Ontario. (National)

Paper. Accepted. . Refereed: Yes

- 46. Cottenie, K. (Sep. 2008). **Species richness: fact or fiction? (oral presentation)**. ESA 94th Annual Meeting, Albuquerque. New Mexico. (National) Paper. Accepted. . Refereed: Yes
- 47. Cottenie, K. (Sep. 2008). Watershed deforestation experiment: effect of riparian buffer width on zooplankton communities in boreal lakes (poster presentation). ESA 94th Annual Meeting, Albuquerque. New Mexico. (National) Paper. Accepted. . Refereed: Yes

- 48. Cottenie, K. (Sep. 2008). Role of regional and local factors in population dynamics of a rock pool metacommunity along the gradient of species habitat specialization (oral presentation). ESA 94th Annual Meeting, Albuquerque. New Mexico. (National) Paper. Accepted. . Refereed: Yes
- 49. Cottenie, K. (Sep. 2008). **Effect of logging on lake zooplankton communities (poster presentation)**. Latornell Conservation Symposium, Alliston. Canada-Ontario. (National) Paper. Accepted. . Refereed: Yes
- 50. Cottenie, K. (Sep. 2008). Effectiveness of beneficial plant-microbe interactions under hypobaric and hypoxic conditions in an advanced life support system (oral presentation). 37th COSPAR Scientific Assembly, Montreal. Canada-Quebec. (National) Paper. Accepted. . Refereed: Yes
- 51. Cottenie, K. (Sep. 2008). **Effects of logging on lacustrine zooplankton communities (oral presentation)**. CSEE 2008 meeting, Vancouver. Canada-British Columbia. (National) Paper. Accepted. . Refereed: Yes
- 52. Cottenie, K. (Sep. 2008). **How do zooplankton species perceive the dispersal limitations of a landscape? (oral presentation)**. Ontario Biology Day, Guelph. Canada-Ontario. (National)

Paper. Accepted. . Refereed: Yes

53. Cottenie, K. (Sep. 2008). **The role of local and regional processes in the community structure of sub arctic rock pools (oral presentation)**. Ontario Biology Day, Guelph. Canada-Ontario. (National)

Paper. Accepted. . Refereed: Yes

- 54. Cottenie, K. (Sep. 2008). **Effects of logging on lacustrince zooplankton communities (oral presentation)**. OEEC 2008 meeting, Guelph. Canada-Ontario. (National) Paper. Accepted. . Refereed: Yes
- 55. Cottenie, K. (Sep. 2008). **Cryptic dispersal in zooplankton, insights from a metacommunity perspective (oral presentation)**. OEEC 2008 meeting, Guelph. Canada-Ontario. (National)

Paper. Accepted. . Refereed: Yes

56. Cottenie, K. (Sep. 2008). **Species richness and environmental variability affect population synchrony (poster presentation)**. ESA annual meeting, Milwaukee. Wisconsin. (National)

Paper. Accepted. . Refereed: Yes

57. Cottenie, K. (Sep. 2008). **Cryptic dispersal in zooplankton, insights from a metacommunity perspective (oral presentation)**. ASLO 2008 Summer meeting, St John's. Canada-Newfoundland. (National)

Paper. Accepted. . Refereed: Yes

58. Cottenie, K. (Sep. 2007). **Multivariate statistics for dummies – a guide for community ecologists (oral presentation)**. ESA/SER Joint meeting 2007, San Jose. California. (National)

Paper. Accepted. . Refereed: Yes

- 59. Cottenie, K. (Sep. 2007). **Metacommunity dynamics of invertebrate rock pool communities: specialist versus generalist species (oral presentation)**. ESA/SER Joint meeting 2007, San Jose. California. (National) Paper. Accepted. . Refereed: Yes
- 60. Cottenie, K. (Sep. 2007). **Time: the final frontier Our mission: to boldly go where few scientists have gone before (in metacommunity theory) (oral presentation)**. SIL 2007, Montreal. Canada-Quebec. (National) Paper. Accepted. . Refereed: Yes
- 61. Cottenie, K. (Sep. 2007). **Space, the final frontier? (oral presentation)**. Environmental Science Research Initiative workshop "Species spread across landscapes: the integration of theoretical and empirical approaches", Guelph. Canada-Ontario. (National) Paper. Accepted. . Refereed: Yes
- 62. Cottenie, K. (Sep. 2007). **Metacommunity dynamics in arctic rock ponds (oral presentation)**. Ontario Biology Day, Hamilton. Canada-Ontario. (National) Paper. Accepted. . Refereed: Yes
- 63. Cottenie, K. (Sep. 2007). Aquatic connectivity and fish metacommunities in wetlands of the lower Great Lakes (oral presentation). Canadian Conference for Fisheries Research, Montreal. Canada-Quebec. (National) Paper. Accepted. . Refereed: Yes
- 64. Cottenie, K. (Sep. 2006). **Metacommunity dynamics through time (oral presentation)**. SCL 2006, Calgary. Canada-Alberta. (National) Paper. Accepted. . Refereed: Yes
- 65. Cottenie, K. (Sep. 2006). **Metacommunity dynamics: interplay between habitat heterogeneity and dispersal**. ASLO 2006, Victoria. Canada-British Columbia. (National) Paper. Accepted. . Refereed: Yes
- 66. Cottenie, K. (Sep. 2006). **Strong top-down control in Southern California kelp forest ecosystems**. 7th International Temporary Reef Symposium, Santa Barbara. California. (National)

Paper. Accepted. . Refereed: Yes

67. Cottenie, K. (Sep. 2005). **Dispersal through time: temporal metacommunity dynamics in annual desert plant communities (oral presentation)**. ESA 2005 90th annual meeting, Montréal. Canada-Quebec. (National) Paper. Accepted. . Refereed: Yes

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68. Cottenie, K. (Sep. 2004). **Meta-analysis of metacommunities (Oral presentation)**. ESA 2004 89th annual meeting, Portland. Oregon. (National) Paper. Accepted. . Refereed: Yes

69. Cottenie, K. (Sep. 2003). Local and regional processes in a zooplankton metacommunity (Oral presentation) and Meta-analysis of metacommunities: a research program (Poster presentation). DIALOG V - Bermuda, Unknown. Unknown. (National) Paper. Accepted. . Refereed: Yes

70. Cottenie, K. (Sep. 2002). **Connectivity and cladoceran species richness in a small interconnected pond system (Oral presentation)**. ASLO 2002 summer meeting, Victoria. Canada-British Columbia. (National) Paper. Accepted. . Refereed: Yes

8. SERVICE

ASSIGNED SERVICE AT THE UNIVERSITY OF GUELPH

Jul. 2021 - Aug. 2024: **Associate Dean, Graduate Studies**, University of Guelph, Canada, (University Service).

Sep. 2019 - Jun. 2021: **Graduate Program Coordinator**, University of Guelph, Canada, (Department Service).

Sep. 2013 - Aug. 2017: **Program Coordinator: Graduate**, University of Guelph, Canada, (Department Service).

IB Graduate Coordinator

INSTITUTIONAL SERVICE ACTIVITIES AT THE UNIVERSITY OF GUELPH

Committee Memberships

Chair / Co-Chair

Sep. 2017 - Jun. 2021: **IB Graduate Studies & Awards Committee**, University of Guelph, Canada (Department Service). University. Department committee

Nov. 2016 - Jun. 2021: **Studies by Undergraduate Researchers at Guelph**, University of Guelph, Canada (University Service).

Sep. 2013 - Aug. 2017: **Integrative Biology graduate studies committee**, University of Guelph, Canada.

Committee Member

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Sep. 2017 - present: **CBS graduate awards committee**, University of Guelph, Canada (College Service).

University. College committee

Sep. 2017 - present: **CSEE conference Local Organizing Committee**, University of Guelph, Canada (Department Service).

University. Department committee

Sep. 2013 - present: **University NSTP-committee**, University of Guelph, Canada (University Service).

University. University committee

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Sep. 2013 - present: **Ecology Curriculum Subcommittee**, University of Guelph, Canada (Department Service).

University. Department committee

Sep. 2010 - present: **Marine Freshwater Biology Major subcommittee**, University of Guelph, Canada (Department Service).

University. Department committee.

Sep. 2010 - present: **Zoology Major Subcommittee**, University of Guelph, Canada (Department Service).

University. Department committee.

Sep. 2008 - present: **Co-evolutionary ecologist selection committee**, University of Guelph, Canada (Department Service).

University. Department committee.

Sep. 2008 - present: **IB Chair's Advisory Committee/Academic Appointments Committee**, University of Guelph, Canada (Department Service).

University. Department committee

Sep. 2017 - Jun. 2021: **University-wide graduate awards committee**, University of Guelph, Canada (University Service).

University. University committee

Sep. 2017 - Jun. 2021: CBS undergraduate awards committee, University of Guelph,

Canada (College Service).

University. College committee

Sep. 2016 - Aug. 2018: Admissions and Progress committee, a subcommittee of the Board of Graduate Studies (BGS). Members are appointed annually for one year terms (renewable), normally to a maximum of three consecutive terms, by the Chair of the BGS., University of Guelph, Canada.

Sep. 2013 - Aug. 2017: College of Biological Science Graduate Studies and Awards Committee, University of Guelph, Canada.

Sep. 2013 - Aug. 2017: **University-wide NSERC scholarship adjudication committee.**, University of Guelph, Canada.

Graduate Examination Activities

Graduate Examination Activities: Chair

Sep. 2017 - present: **Chairing 5 QEs**. (Department Service). Qualifying Examination - Chair View supplementary material

Sep. 2017 - present: **Chairing 15 MSc and PhD defences**. (Department Service). Thesis Defence / Dissertation - Chair

Mentoring Activities

Sep. 2015 - present: **Statistics mentoring**, 10 **Mentorees**: On average, 10 participants per week, but the numbers and identity of the students vary widely per week.. I am organizing the University of Guelph R user group, a weekly meeting time for mainly Integrative Biology R users, both graduate and undergraduate students, but we have also participants from other departments. We discuss best practices, new packages, participant solutions in a collaborative environment.

Sep. 2015 - present: **Mentor**. (University Service).

University committee. The undergraduate journal "Studies by Undergraduate Researchers at Guelph" is rebooted by the Office of Research. Together with Owen Roberts, Office of Research, and Jack McCart, the new undergraduate Editor in Chief, we have strategized on how to increase submissions, efficient manuscript handling, and eventually also what direction the journal needs to go to be relevant for the undergraduate students. . SURG Advisory Committee

Sep. 2016 - Apr. 2017: **Undergraduate mentor**, 1 **Mentorees**: Annabeth Canella. The CHROMA project is a mentoring program for first year students where faculty and graduate students provide academic and/or cultural transitional support to undergraduate students during their first year of university.

Assessment and Review Activities

Research Funding Application Assessment Activities

Jan. 2016 - present: all grant agencies, with actual number reviewed in parentheses if more than 1, in the description section. (International)

In these 2 years (and not 2015-2016 as provided by Sedona at the start of this line), I reviewed proposals for these agencies: NSF (2), Portuguese Science Foundation, Swiss National

Science Foundation, Danish Council for Independent Research, Russian Science Foundation (4), NSERC (2), British Ecological Society small research grants (5). View supplementary material

Sep. 2013 - present: all grant agencies, with actual number reviewed in parentheses if more than 1, in the description section. (International)

Animal Care Review, Austria Science Fund (4), Swiss National Science Foundation, NSERC (3), Portuguese Science Foundation.

Sep. 2012 - present: all grant agencies, with actual number reviewed in parentheses if more than 1, in the description section. (International)

Animal Care Review, Austria Science Fund (4), Swiss National Science Foundation, NSERC (3), Portuguese Science Foundation.

PROFESSIONAL AND COMMUNITY SERVICE ACTIVITIES EXTERNAL TO THE UNIVERSITY OF GUELPH

Graduate Examination Activities

Sep. 2017 - present: Michael Dyer, Rhodes University, South Africa. (Department Service).

Unassigned

Thesis Defence / Dissertation - Committee

Sep. 2005 - present: Frank Van de Meutter - PhD. (Department Service).

Unassigned

K. U. Leuven. Thesis Defence / Dissertation - Committee

View supplementary material

Sep. 2004 - present: Jochen Vandekerckhove - PhD. (Department Service).

Unassigned

K. U. Leuven, Thesis Defence / Dissertation - Committee

9. OTHER SCHOLARLY AND PROFESSIONAL ACTIVITIES AND ACHIEVEMENTS

ASSESSMENT AND REVIEW ACTIVITIES

Journal Review Activities

Jan. 2016 - present: Reviewer, all journals, with actual number reviewed in parentheses if more than 1, in the description section. (International).

In these 2 years (and not 2015-2016 as provided by Sedona at the start of this line), I reviewed manuscripts for these journals: Ecography, NSF, Freshwater Biology (2), Hydrobiologia (7), Freshwater Sciences, PLoS1 (2), Journal of Plankton Research, American Naturalist (2), Aquatic Microbial Ecology, Molecular Ecology (2), Science Express, Ecology (2), Limnology &

Oceanography, Aquatic Sciences, Ecological Resource Management, Proceedings B (3), Oecologia, Ecological Complexity, Michigan Botanist (2), Ecological Applications, Global Ecology and Biogeography, Oikos (2), Journal of Biogeography.

View supplementary material

Sep. 2013 - present: Reviewer, all journals, with actual number reviewed in parentheses if more than 1, in the description section. (International).

Journal of Ecology (2), Ecology and Evolution, Ecology (2), Hydrobiologia (2), Ecology Letters, Journal of Biogeography, Ecography (5), American Naturalist, Ecosphere (2), PLoS One (3), Freshwater Biology (3), Proceedings of the Royal Society B (2), Oikos, Limnologica, Arctic Antarctic and Alpine Research (2), SURG,.

View supplementary material

Sep. 2012 - present: Reviewer, all journals, with actual number reviewed in parentheses if more than 1, in the description section. (International).

Journal of Ecology (2), Ecology and Evolution, Ecology (2), Hydrobiologia (2), Ecology Letters, Journal of Biogeography, Ecography (5), American Naturalist, Ecosphere (2), PLoS One (3), Freshwater Biology (3), Proceedings of the Royal Society B (2), Oikos, Limnologica, Arctic Antarctic and Alpine Research (2), SURG,.

View supplementary material

EDITORIAL ACTIVITIES

Sep. 2012 - present: Editor: Peer Reviewed Journal, **Journal of Animal Ecology** (Journal). (International).

. I handled 22 manuscripts in these 2 years.

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Jan. 2019 - Dec. 2021: Associate Editor, **Diversity** (Journal).

Jan. 2018 - Dec. 2021: Science Advisory Group, Canadian Institute for Ecology and Evolution (Report).

Jan. 2018 - Dec. 2021: Expert Panel, **EXPRO review panel Czech Science Foundation** (Report).

Jan. 2016 - Dec. 2021: Expert Panel, **Scholarships panel British Ecological Society** (Report).

Jan. 2008 - Aug. 2017: Associate Editor, **Journal of Animal Ecology (reviewed every 3 years)** (Journal).

Responsible for handling approximately 12 manuscripts per year: pre-review, assigning reviewers, suggesting decision to Editor.

EVENT ADMINISTRATION

Sep. 2011 - present: Professional Workshop / Courses Facilitated, International Course for PhD students on Metacommunities and Meta-Ecosystems (EFRE, University of Oldenburg, 2011). (International) (Professional Service).

University of Oldenburg. Co-instructor.

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Jan. 2011 - present: Professional Workshop / Courses Facilitated, **Synchronous activity in biological systems investigative workshop**. (International) (Professional Service). Knoxville, NIMBioS. participant in work shop.

Sep. 2010 - present: Professional Workshop / Courses Facilitated, International Course for PhD students on applied metacommunity dynamics (University of Lundt, 2010).

(International) (Professional Service).

University of Lundt. Co-instructor.

View supplementary material

Sep. 2006 - present: Professional Workshop / Courses Facilitated, **Metacommunity dynamics**. (International) (Professional Service).

Santa Barbara. Participant in working group.

View supplementary material

Sep. 2006 - present: Professional Workshop / Courses Facilitated, **Spatial and Temporal community dynamics**. (International) (Professional Service).

Santa Barbara. Participant in working group.

View supplementary material

Jul. 2018: Organizing committee CSEE 2018, **CSEE annual meeting organizing committee member.** (Conference).

PROFESSIONAL DEVELOPMENT

Jan. 2018 - present: **Instructional Skills Workshop** (Instructional).

3-day workshop for peer-based instructional development, the ISW is designed to strengthen instructional skills through intensive, yet practical exercises in learning-centred teaching. Mixing small and large group interaction, the workshop will engage participants in: generating effective feedback and discussion, planning and delivering short lessons, developing participatory instructional techniques, listening actively, learning and teaching collaboratively. This was a very transformative event, and my short-term goal is to participate in the Facilitator Development Workshop, and advocate that CBS would offer this to all new faculty members.. Guelph

Jan. 2018 - present: **Writing retreat** (Instructional). 5 day writing retreat organized by the University library.. Guelph

Jan. 2018 - present: **Post-graduate Student Supervision online course** (Instructional). 9 week online course in graduate supervision. Memorial University Newfoundland