

## Curriculum Vitae, Caroline Williams

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**RESEARCH KEYWORDS:** Insects, metabolism, seasonality, climate change, winter, stress responses, energetics

### EDUCATION

Year	Institution	Degree	Department
2007 - 2011	University of Western Ontario, Canada Advisor: Brent Sinclair	Ph.D.	Biology
2002 - 2004	University of Otago, New Zealand Advisor: Robert Poulin, Co-advisor: Brent Sinclair	M.Sc.	Zoology
1999 - 2001	University of Otago, New Zealand	B.Sc.	Zoology

### EMPLOYMENT HISTORY

Year	Details
2012 - 2014	Postdoctoral Fellow, Department of Entomology and Nematology, University of Florida, Gainesville (Advisor: Daniel Hahn).
2014 - 2020	Assistant Professor, Department of Integrative Biology, UCB
2020 -	Associate Professor, Department of Integrative Biology, UCB

### PROFESSIONAL APPOINTMENTS

Year	Details
2018 -	Associate editor; Proceedings of the Royal Society B: Biological Sciences
2014 -	Associate editor; Functional Ecology
2014 -	Faculty curator, Essig Museum of Entomology

### HONORS AND AWARDS

Year	Name of award	Organization
2018	George Bartholemew award	Society of Integrative and Comparative Biology
2016	Outstanding Faculty Advising	Berkeley Advising Council, UC Berkeley
2011	Ontario Graduate Scholarship	Ontario Provincial Government
2011	Ruth Horner Arnold Fellowship	Department of Biology, U Western Ontario
2010	Scholander Award and Best Oral Presentation Award	American Physiological Society
2010	Graduate Student Teaching	Faculty of Science, U Western Ontario
2010	Ruth and Robert Lumsden Fellowship	U Western Ontario

**RESEARCH FUNDING****CURRENT**

Grant # (Role): NSF DEB-1930670 (co-PI)	04/01/2021 –
Co-PIs: Lauren Buckley, Seasn Schoville	03/31/2024
Funding Agency/Source : National Science Foundation	\$304,437
Title of the grant: Collaborative Research: ROL: Detecting and predicting energetic versus survival constraints on fitness in changing environments.	
	04/01/2016 –
	03/31/2019
Grant # (Role): NSF IOS-1558159 (PI)	
Co-PIs: Nathan Rank, Elizabeth Dahlhoff, Jonathon Stillman	
Funding Agency/Source : National Science Foundation	\$438,009
Title of the grant: Collaborative Research: Physiological and genetic responses to winter in a Willow Leaf beetle	

**COMPLETED**

Grant # (Role) Foundation Grant (co-PI)	
Co-PIs: George Brooks, José Pablo Vázquez-Medina	05/05/2019
Funding Agency/Source: Biology Faculty Research Fund	\$25,000
Title of the grant: Developing an Integrative Biology Metabolic Core	
Grant # (Role): NSF IOS 1637201 (co-PI)	09/01/2016 –
	8/31/2017
Funding Agency/Source: National Science Foundation	\$14,050
Title of grant: Meeting: Evolutionary Impacts of Seasonality; a Symposium for the Annual Meeting of SICB, New Orleans, LA, Jan 4-8 2017	
Grant # (Role) Foundation Grant (PI)	05/01/2016 – 06/01/2017
Funding Agency/Source: Hellman Family Foundation	\$60,015
Title of the grant: Balancing supply and demand: I modulation of energy efficiency during life history evolution.	

**RESEARCH OUTPUT**

**37** peer-reviewed publications, **2** plenary lecture, **10** invited symposium presentations, **1** symposium organized, **17** invited seminar visits, and **12** contributed conference presentations.

Citation profile: <http://scholar.google.de/citations?user=svAox44AAAAJ&hl=en>

1584 citations, h-index = 19.

## PUBLICATIONS

### IN REVIEW

Osland MJ, Stevens PW, Lamomt MM, Brusca RC, Hart KM, Waddle JH, Langtimm CA, Williams CM, Keim BD, Terando AJ, Ryeier EA, Marshall KE (in revision)  
Tropicalization of temperate ecosystems in North America: the northward range expansion of tropical organisms in response to warming winter temperatures. *Global Change Biol.*

### PEER-REVIEWED PUBLICATIONS

*Undergraduate, graduate, and postdoctoral trainees denoted with superscripts*

- 37) Wilsterman KA<sup>G</sup>, Ballinger M<sup>G</sup>, **Williams CM** (in press). A unifying ecophysiological framework for animal dormancy. *Functional Ecology*.
- 36) Buckley LB, Schoville SD, **Williams CM** Shifts in the relative fitness contributions of fecundity and survival in variable and changing environments. *Journal of Experimental Biology* (in press).
- 35) Marshall KE, Gotthard K, **Williams CM** (2020) Evolutionary impacts of winter climate change on insects. *Current Opinion in Insect Science*. 41:54-62
- 34) Sun B-J, Huebner C<sup>U</sup>, Treidel LA<sup>G</sup>, Clark R<sup>P</sup>, Kenagy GJ, Williams CM (2020) Nocturnal dispersal flight of crickets: behavioural and physiological responses to cool environmental temperatures. *Functional Ecology*. 34:1907-1920
- 33) Brandt EE<sup>G</sup>, Roberts KT<sup>G</sup>, **Williams CM**, Elias DO. (2020) Low temperatures impact distributions of spiders along an elevational cline. *Journal of Insect Physiology*. 102:104037.
- 32) Sun B-J, Ma L, Li S-R, **Williams CM**, Wan g Y, Hao X, Du W-G (2018) Phenology and the physiological niche are co-adapted in a desert-dwelling lizard. *Functional Ecology* 32: 2520-2530. DOI: 10.1111/1365-2435.13201.
- 31) Halbritter DA<sup>G</sup>, Teets NM, **Williams CM**, Daniels JC (2018). Differences in winter cold hardiness support the geographic range disjunction of *Neophasia menapia* and *Neophasia terlooii* (Lepidoptera: Pieridae) *Journal of Insect Physiology* 107:204-211.
- 30) **Williams CM**, Rocca JR, Edison AS, Allison DB, Morgan TJ, Hahn DA (2018) Cold adaptation does not alter ATP homeostasis during cold exposure in *Drosophila melanogaster*. *Integrative Zoology* 13:471-81.
- 29) Visser B, **Williams CM**, Hahn DA, Lopez-Martinez GC (2018). Hormetic benefits of prior anoxia exposure in buffering anoxia stress in a soil-pupating insect. *Journal of Experimental Biology* 221, doi:10.1242/jeb.167825.

- 28) Hatle JD, Awan A<sup>U</sup>, Nicholas J, Koch R, Vokri JR, McCue MD, **Williams CM**, Davidowitz G, Hahn DA (2017). Life-extending dietary restriction and ovariectomy each have distinct effects on nutrient oxidation and allocation in grasshoppers, especially for leucine. *Experimental Gerontology* 96:155-161.
- 27) **Williams CM**, Ragland GJ, Betini G, Buckley LB, Cheviron Z, Donohue K, Hereford J, Humphries MM, Lisovski S, Marshall KE, Schmidt PS, Sheldon K, Varpe O, Visser ME (2017). Understanding evolutionary impacts of seasonality: an introduction to the symposium. *Integrative and Comparative Biology* 57: 921-933.
- 26) **Williams CM**, McCue MD, Sunny NE, Szejner-Sigal A<sup>U</sup>, Morgan TJ, Edison AS, Allison DB, Hahn DA (2016) Cold adaptation increases rates of nutrient flow and metabolic plasticity during cold exposure in *Drosophila melanogaster*. *Proceedings of the Royal Society B: Biological Sciences*. 283:20161317.
- 25) **Williams CM**, Szejner-Sigal A<sup>U</sup>, Morgan TJ, Edison AS, Allison DB, Hahn DA (2016) Adaptation to low temperature exposure increases metabolic rates independently of growth rates. *Integrative and Comparative Biology* 56: 62-72.
- 24) **Williams CM**, Buckley LB, Sheldon KS, Vickers M, Pörtner H-O, Dowd WW, Gunderson AR, Marshall KE, Stillman JH (2016) Biological impacts of thermal extremes: mechanisms and costs of functional responses matter. *Integrative and Comparative Biology* 56: 73-84.
- 23) Patterson RE, Kalavalapalli S, **Williams CM**, Nautiyal M, Mathew J., Martinez J, Reinhard MK, McDougall D, Rocca JR, Yost RA, Cusi K, Garrett TJ, Sunny NE (2016) Lipotoxicity in steatohepatitis occurs despite an increase in TCA cycle activity. *American Journal of Physiology: Endocrinology and Metabolism* 310:E484-494.
- 22) Sunny NE, Kalavalapalli S, Bril F, Garrett TJ, Nautiyal M, Mathew JT, **Williams CM**, Cusi K (2015) Crosstalk between branched chain amino acids and hepatic mitochondria is compromised in nonalcoholic fatty liver disease. *American Journal of Physiology: Endocrinology and Metabolism* 309:E311-319.
- 21) **Williams CM**, Chick WD<sup>U</sup>, Sinclair BJ (2015) A cross-seasonal perspective on local adaptation: Metabolic plasticity mediates responses to winter in a thermal-generalist moth species. *Functional Ecology*, 29: 549-561. COVER PHOTO.
- 20) **Williams CM**, Henry HAL, Sinclair BJ (2015) Cold truths: how winter drives responses of terrestrial organisms to climate change. *Biological Reviews of the Cambridge Philosophical Society* 90: 214-235. RECOMMENDED, FACULTY OF 1000.
- 19) **Williams CM**, Watanabe M, Guarracino M, Ferraro MB, Edison AE, Morgan TJ, Boroujerdi AFB, Hahn DA (2014) Cold adaptation shapes the robustness of metabolic networks in *Drosophila melanogaster*. *Evolution*, 68:3505-3523
- 18) Clendinen CS, Lee-McMullen B, **Williams CM**, Stupp G, Vandenborne K, Hahn DA, Walter GA, Edison AS (2014) <sup>13</sup>C NMR Metabolomics: Applications at Natural Abundance. *Analytical Chemistry*, 86:9242-9250.
- 17) **Williams CM**, Nicolai A, Ferguson, LV, Bernards MA, Hellmann JJ, Sinclair BJ (2014) Cold hardiness and deacclimation of overwintering *Papilio zelicaon* pupae.

***Comparative Biochemistry and Physiology A: Molecular and Integrative Physiology***, 178:51-58.

- 16) O'Neil ST, Dzurisin JDK, **Williams CM**, Lobo NF, Higgins JK, Deines JM, Carmichael RD, Zeng E, Tan JC, Wu GC, Emrich SJ, Hellmann JJ (2014) Gene expression in closely-related species mirrors local adaptation: consequences for responses to a warming world. ***Molecular Ecology*** 23:2686-2698.
- 15) Lake SL<sup>U</sup>, MacMillan HA, **Williams CM**, Sinclair BJ (2013) Static and dynamic approaches yield similar estimates of thermal sensitivity of insect metabolism. ***Journal of Insect Physiology*** 59:761-766.
- 14) Jensen K, Sanchez-Garcia J, **Williams CM**, Khare S, Mathur K, Graze RM, Hahn DA, McIntyre LM, Rincon-Limas D, Fernandez-Funez P (2013) Purification of transcripts and metabolites from *Drosophila* heads. ***Journal of Visualised Experiments*** 73: e50245.
- 13) Sinclair BJ, Stinziano JR<sup>U</sup>, **Williams CM**, MacMillan HA, Marshall KE, Storey KB (2013) Real-time measurements of metabolic rate during freezing and thawing of the wood frog, *Rana sylvatica*: implications for overwinter energy use. ***Journal of Experimental Biology*** 216:292-302.
- 12) MacMillan HA, **Williams CM**, Staples JF, Sinclair BJ (2012) Reestablishment of ion homeostasis during insect chill coma recovery. ***Proceedings of the National Academy of Sciences U.S.A.*** 109:20750-20755.
- 11) Sinclair BJ, **Williams CM**; Terblanche JS (2012) Variation in thermal performance among insect populations. ***Physiological and Biochemical Zoology*** 85:594-606.
- 10) **Williams CM**, Hellmann JJ, Sinclair BJ (2012a). Lepidopteran species differ in susceptibility to winter warming. ***Climate Research*** 53:119-130.
- 9) **Williams CM**, Marshall KE, MacMillan HA, Dzurisin JDK, Hellmann JJ, Sinclair BJ (2012b) Thermal variability increases the impact of autumnal warming and drives metabolic depression in an overwintering butterfly. ***PLoS ONE*** 7:e34470.
- 8) MacMillan HA; **Williams CM**; Staples JF; Sinclair BJ (2012) Metabolism and energy supply below the critical thermal minimum of a chill-susceptible insect. ***Journal of Experimental Biology*** 215: 1366-1372.
- 7) **Williams CM**, Thomas RH; MacMillan HA; Marshall KE; Sinclair BJ (2011) Triacylglyceride measurement in small quantities of homogenised insect tissue: comparisons and caveats. ***Journal of Insect Physiology*** 57:1602-1613.
- 6) Lalouette L; **Williams CM**; Cottin M; Sinclair BJ; Renault D (2011a) Thermal biology of the alien ground beetle *Merizodus soledadinus* introduced to the Kerguelen Islands. ***Polar Biology*** 35: 509-517.
- 5) Lalouette L, **Williams CM**, Hervant F, Sinclair BJ, Renault D (2011b) Metabolic rate and oxidative stress in insects exposed to low temperature thermal fluctuations. ***Comparative Biochemistry and Physiology A*** 158:229-34.

- 4) Bazinet AL<sup>U</sup>; Marshall KE; MacMillan HA; **Williams CM**; Sinclair BJ (2010) Rapid changes in desiccation resistance in *Drosophila melanogaster* are facilitated by changes in cuticular permeability. *Journal of Insect Physiology* 56:2006-12.
- 3) **Williams CM**, Pelini SL, Hellmann JJ, Sinclair BJ (2010) Intra-individual variation allows an explicit test of the hygric hypothesis for discontinuous gas exchange in insects. *Biology Letters*, 6: 274-277.
- 2) Pelini SL, Dzurisin JDK, Prior KM, **Williams CM**, Marsico TD, Sinclair BJ, Hellmann JJ (2009) Translocation experiments with butterflies reveal limits to enhancement of poleward populations under climate change. *Proceedings of the National Academy of Sciences U.S.A.* 106:11160-5.
- 1) **Williams CM**, Poulin R, Sinclair BJ (2003) Increased haemolymph osmolality suggests a new route for behavioral manipulation of *Talorchestia quoyana* (Amphipoda: Talitridae) by its mermithid parasite. *Functional Ecology* 18:685-91.

#### OTHER PUBLICATIONS

- Treidel LA<sup>G</sup>, **Williams CM** (2018) Costs of being hungry in a fast-paced world. *Functional Ecology* (Commentary). <https://doi.org/10.1111/1365-2435.13187>.
- Williams CM** (2016) Ecology: Insect Thermal Baggage. *Nature Climate Change* (News and Views) 6: 543-544.
- Early career researchers: a conversation with Caroline Williams. *Journal of Experimental Biology* 220: 2133-2135. Interviewer Kathryn Knight.

#### SYMPOSIUM ORGANIZED

**Williams CM**, Ragland GJ. Evolutionary Impacts of Seasonality. Society of Integrative and Comparative Biology annual meeting, New Orleans Jan 2017. Edited a themed journal issue with participant manuscripts for Integrative and Comparative Biology (volume 57, issue 5).

#### INVITED PRESENTATIONS

Year	Event	Role
2019	International Symposium of Environmental Physiology of Ectotherms and Plants (ISEPEP), Buenos Aires	Plenary lecture
2018	George A. Bartholemew lecture, Society of Integrative and Comparative Biology annual meeting San Francisco	Plenary lecture
2018	Department of Biology, University of Montana	Seminar speaker
2018	Brown & Williamson speaker series, U Louisville, KY, Dept. Biol	Distinguished Speaker
2018	Department seminar series, Pennsylvania State University, Dept. Entomol	Seminar speaker
2017	Department seminar series, University of California, Riverside, Dept. Biol., Dept. Entomol	Seminar speaker
2016	Department seminar series, University of California, Irvine, Ecology and Evolutionary Biology	Seminar speaker

2016	Department seminar series, University of California, Davis, Genetic and Genomic graduate group	Seminar speaker
2016	Department seminar series, University of California, Santa Barbara, Dept. Ecol Evol Marine Biol	Seminar speaker
2015	Department seminar series, Santa Clara University, Santa Clara, Department of Biology	Seminar speaker
2014	Department seminar series, University of Nebraska, Lincoln, Department of Biological Sciences	Seminar speaker
2014	Department seminar series, Sonoma State University, Department of Biology	Seminar speaker
2013	Department seminar series, University of Florida, Gainesville, Department of Entomology and Nematology	Seminar speaker
2013	Department seminar series, University of California, Berkeley, Department of Integrative Biology	Seminar speaker
2013	Department seminar series, University of North Florida, Department of Biological Sciences	Seminar speaker
2012	Department seminar series, University of Florida, McGuire Centre for Lepidoptera and Biodiversity	Seminar speaker
2012	Department seminar series, Florida State University, Department of Biological Sciences	Seminar speaker
2012	US Fish and Wildlife Service Conservation Science Webinar Series	Seminar speaker
2011	Department seminar series, University of Florida, Gainesville, Department of Entomology and Nematology	Seminar speaker
2018	North American Association of Biology Teachers conference	Symposium speaker
2018	Evolution of Phenotypic Plasticity symposium, American Physiological Society: Comparative and Evolutionary Physiology meeting; New Orleans LA USA	Symposium speaker
2018	The Role of the Mitochondria in Environmental Adaptation and Disease, Society of Experimental Biology, Florence Italy	Symposium speaker
2017	Evolutionary Impacts of Seasonality symposium, SICB annual meeting, New Orleans LA	Symposium speaker and co-organizer
2017	Mitochondria, Metabolism, and Homeostasis: from molecular mechanisms to societies. Entomology, Denver CO.	Invited speaker, postdoctoral associate Rebecca Clark presented.
2017	Biological buffers and the impacts of climate change, 9 <sup>th</sup> International Symposium of Integrative Zoology, International Society of Zoological Sciences, Xining, China	Symposium speaker
2016	Climate change and insect population dynamics symposium, International Congress on Entomology, Orlando FL	Symposium speaker

2016	Beyond the Mean symposium, SICB annual meeting, Portland OR	Symposium speaker
2015	Hot and Cool Bugs symposium, AAAS Pacific Division meeting, San Francisco	Symposium speaker
2014	Macro and micro of nutrient effects in animal ecology and physiology symposium, SICB annual meeting, Austin TX	Symposium speaker
2016	University of California Museum of Paleontology's "Think Evolution" workshop, for teachers and educators	Workshop speaker

**CONTRIBUTED CONFERENCE PRESENTATIONS**

Year	Event	Role/ Format
2020	SICB, Austin Texas (Presenting author: Gessen Sigrid Quantanilla Ramirez, undergraduate)	Co-author, Poster
2020	SICB, Austin Texas (Presenting author: Christopher Huebner, undergraduate)	Co-author, Poster
2020	SICB, Austin Texas (Presenting author: Lisa Treidel)	Co-author, Oral
2020	SICB, Austin Texas (Presenting author: Nikki Chambers)	Co-author, Oral
2020	SICB, Austin Texas (Presenting author: Emily King)	Co-author, Oral
2020	SICB, Austin Texas (Presenting author: Kevin Roberts)	Co-author, Oral
2019	International Symposium on the Environmental Physiology of Ectotherms and Plants (ISEPEP7), Buenos Aires Argentina (Presenting author, Andre Szejner Sigal)	Co-author, Poster
2019	International Symposium on the Environmental Physiology of Ectotherms and Plants (ISEPEP7), Buenos Aires Argentina (Presenting author, Ana Lyons)	Co-author, Oral
2019	International Symposium on the Environmental Physiology of Ectotherms and Plants (ISEPEP7), Buenos Aires Argentina (Presenting author, Kevin Roberts)	Co-author, Oral
2018	Society of Experimental Biology, Florence Italy (Presenting author: Emily King, PhD mentee)	Co-author, Oral
2018	SICB, San Francisco CA (Presenting author: Emily King, PhD mentee)	Co-author, Oral
2018	SICB, San Francisco CA (Presenting author: Lisa Treidel, PhD mentee)	Co-author, Oral
2018	SICB, San Francisco CA (Presenting author: Kevin Roberts, PhD mentee)	Co-author, Oral
2018	SICB, San Francisco CA (Presenting author: Rebecca Clark, postdoctoral mentee)	Co-author, Oral
2018	SICB, San Francisco CA (Presenting author: Christopher Huebner, undergrad. mentee)	Co-author, Poster



2018	SICB, San Francisco CA (Presenting author: Priyanka Goswami, high school student mentee)	Co-author, Poster
2017	SICB, New Orleans LA (Presenting author: Kevin Roberts, PhD mentee)	Co-author, Oral
2017	SICB, New Orleans LA (Presenting author: Lisa Treidel, PhD mentee)	Co-author, Oral
2017	SICB, New Orleans LA (Presenting author: Rebecca Clark, postdoctoral mentee)	Co-author, Oral
2017	SICB, New Orleans LA (Presenting author: Katelyn Adam, undergrad. mentee)	Co-author, Poster
2016	SICB, Portland OR (Presenting author: Kevin Roberts, PhD student in my lab)	Co-author, Oral
2015	SICB, West Palm Beach FL (Presenting author: Andre Szejner Sigal, undergraduate mentee)	Co-author, Poster
2014	SICB, Austin TX (Presenting author: Ayesha Awan, undergraduate mentee)	Co-author, Poster
2014	American Society of Physiology Intersociety meeting, San Diego CA	Presenter, Oral
2014	Society for Molecular Biology and Evolution, San Juan Puerto Rico (Presenting author: Tonia Schwartz, collaborator)	Co-author, Oral
2013	International Symposium on the Environmental Physiology of Ectotherms and Plants 5 (ISEPEP5), London ON Canada	Presenter, Oral
2013	Computational Biomedicine, Gainesville FL	Presenter, Oral
2013	SICB, San Francisco CA	Presenter, Oral
2013	SICB, San Francisco CA (Presenting authors: Laura Castellanos and Rachel Silverberg, undergraduate mentees)	Co-author, Poster
2012	Florida Genetics Conference, Gainesville FL	Presenter, Poster
2012	SICB, Charleston NC	Presenter, Oral
2011	ISEPEP4, Rennes France (2 <sup>nd</sup> prize, Best Oral Presentation)	Presenter, Oral
2011	Canadian Society of Zoologists (CSZ), Ottawa ON ( <b>Hoar Award finalist</b> )	Presenter, Oral
2010	American Physiological Society Intersociety meeting, Westminster CO ( <b>Scholander Award and Best Oral Presentation</b> )	Presenter, Oral
2010	CSZ, Vancouver BC	Presenter, Oral
2009	SICB, Boston MA	Presenter, Poster

**SERVICE CONTRIBUTIONS****GOVERNMENT AND OTHER PROFESSIONAL SERVICE**

Year	Organization	Role (# proposals)
2018	Czech Science Foundation	<i>Ad hoc</i> reviewer (1)
2017	National Research Foundation, South Africa	<i>Ad hoc</i> reviewer (1)
2017	National Science Foundation	Panelist
2013	Texas Academy of Science	<i>Ad hoc</i> reviewer (1)
2014	National Science Foundation	<i>Ad hoc</i> reviewer (1)
2011 - 2016	Polish National Science Center	<i>Ad hoc</i> reviewer (5)
2016	Austrian Science Fund	<i>Ad hoc</i> reviewer (1)
2016	Czech Science Foundation	<i>Ad hoc</i> reviewer (3)

**DEPARTMENTAL SERVICE**

Year	Committee Name	Role
2019-	IB Development Committee	Chair
2019	Life Sciences Cluster hire, IB Search Committee	Member
2017 - 2019	Undergraduate advising committee	Faculty advisor
2014- 2017	Integrative Biology, Seminar Committee	Chair and Co-chair
2016- 2017	Integrative Biology, Faculty Search Committee	Member
2016-	Integrative Biology, Long-range Planning Committee	Member
2015- 2016	Integrative Biology, Executive Committee	Member
2014- 2015	Berkeley Initiative on Global Change Biology, Seminar committee	Chair

**SERVICE TO PROFESSIONAL PUBLICATIONS**

Year	Publication
2018 - present	Editorial Board, Proceedings of the Royal Society B
2014 - present	Editorial Board, Functional Ecology
2009 - present	<i>Ad hoc</i> reviewer for PNAS, Nature Climate Change, Global Change Biol., Proc Roy Soc B, Ecology, Heredity, Genetics, Biol Letters, J Exp Biol, J Anim Ecol, Physiol Biochem Zool, Funct Ecol, J Evol Biol, Global Change Biol, Comp Biochem Physiol B, Oikos, Physiol Entomol, PLoS ONE, Integr Comp Biol, J Biogeography, J Insect Physiol, Insects,

Conservation Physiol, Biol J Linn Soc, J Thermal Biol, Current Opinion Insect Sci, Sci Reports, Current Biology, Frontiers in Physiology, Global Ecology and Biogeography, Annals NY Acad Sci.

### PROFESSIONAL ORGANIZATIONS

Year	Organization
2007 - present	Society of Integrative and Comparative Biology (SICB)
2012 - present	Australian and New Zealand Society for Comparative Physiology and Biochemistry
2014 - present	British Ecological Society
2010-present, intermittently	American Physiological Society
2007-2013	Canadian Society of Zoologists

### TEACHING AND MENTORING

#### COURSES TAUGHT

Term	Course #	Title	Units	Team Taught
Fall 2014	IB290	Graduate seminar in Global Change Biology	1	No
Spring 2015	IB290	Graduate seminar in Global Change Biology	1	No
Spring 2015	IB24	Freshman seminar: Thermal Adaptation	1	No
Spring 2016	IB24	Freshman seminar: Thermal Adaptation	1	No
Spring 2016, 2017, 2018	IB150	Evolutionary Environmental Physiology	3	No
Fall 2016	IB148	Comparative Physiology	3	Yes (50%)
Spring 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020	IB24	Freshman seminar: Biological Impacts of Climate Change	1	No
Fall 2017	IB84	Sophomore seminar: Biological Impacts of Climate Change	1	No

Fall 2017	IB290	Graduate seminar in grant writing	2	Yes
Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020	IB222	Graduate seminar in Physiological Energetics and Biomechanics	2	Yes

**MENTORING (SINCE STARTING FACULTY POSITION IN 2014)****UNDERGRADUATE STUDENTS MENTORED**

Dates	Name	Program or School	Role	Current Position
2017 -	Hannah Ritchie	Molecular Cellular Biol, UCB	Research advisor	Undergraduate student
2017 -	Francesco Rica	Undeclared, UCB	Research advisor	Undergraduate student
2017 -	Makayla Arkara	Environmental Science, Policy and Management, UCB	Research project mentor	Undergraduate student
2016 -	Chris Huebner	Integrative Biol, UCB	Research advisor	Undergraduate student
2016 -	Gina Kotos	Integrative Biol, UCB	Research advisor	Undergraduate student
2017 -	Anne Sompayrac	Integrative Biol, UCB	Honor's thesis advisor	Graduated with honors, working as research assistant in my lab
2015 -	Melissa Lopez	Environmental Science, Policy and Management, UCB	Research project mentor	Undergraduate student
2016 - 2016	Paul Yoon	Integrative Biol, UCB	Research advisor	Undergraduate student
2015 - 2017	Jessica Lee	Integrative Biol, UCB	Research project mentor	Graduated, employed as medical scribe to prepare for medical school applications.
2015 - 2015	Andrea Tam	Biology, U Penn	Research project mentor	Graduated
2015 - 2017	Katelyn Adam	Environmental Science, Policy and Management, UCB	Research project mentor	Graduated, seeking work as lab technician and preparing to apply to graduate school.
2014 - 2015	Vishruth Venkataraman	Integrative Biol, UCB	Research advisor	Graduated

Curriculum vitae

Caroline Williams

2014 - 2015	Hannah Berman	Integrative Biol, UCB	Research advisor	Graduated
2014 - 2016	Rose Kang	Integrative Biol, UCB	Honor's thesis advisor	Graduated with honors, at Case Western Medical School
2014 - 2017	Varun Bahl	Molecular and Cellular Biology, UCB	Research project mentor	Graduated, at U Penn Physiology PhD program
2014 - 2015	Mimi Zhao	Integrative Biol, UCB	Research project mentor	Graduated

GRADUATE STUDENTS MENTORED

Dates	Name	Program or School	Faculty Role	Current Position
2015-	Lisa Treidel	Integrative Biol, UCB	PhD advisor and research mentor	PhD student, UCB
2015-	Kevin Roberts	Integrative Biol, UCB	PhD advisor and research mentor	PhD student, UCB
2016 -	Ana Lyons	Integrative Biol, UCB	PhD advisor and research mentor	PhD student, UCB
2016 -	Andre Szejner Sigal	Integrative Biol, UCB	PhD advisor and research mentor	PhD student, UCB
2016 -	Emily King	Integrative Biol, UCB	PhD co-advisor and research mentor	PhD student, UCB
2016 -	Victoria Dahloff	Woods lab, U Montana	Dissertation committee, outside member	PhD student, U Montana
2017	Mallory Ballinger	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB
2017	Matt Kling	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB
2017 - present	Richelle Tanner	Integrative Biol, UCB	Qualifying exam inside member, Dissertation committee inside member	PhD student, UCB
2017	Erik Sathe	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB
2017	Jeffrey Frederick	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB
2016	Sara Elshafie	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB
2016	Philip Georgakakis	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB

2016	Kathryn Wilsterman	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB
2015	Weston Stauffer	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB
2015	Rachel Thayer	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB
2015	Michelle Miller	Integrative Biol, UCB	Qualifying exam inside member	PhD student, UCB
2014 - 2015	Leo Darrigade	Agro Paris Tech, MSc exchange	Research project mentor	PhD student, U Paris Saclay
2015 – present	Eric Armstrong	Integrative Biol, UCB	Dissertation committee, inside member	PhD student, UCB
2014 - present	Maria Tonione	Environmental Science, Policy and Management, UCB	Dissertation committee, outside member	PhD student, UCB
<b>POSTDOCTORAL FELLOWS MENTORED</b>				
Dates	Name	Program or School	Faculty Role	Current Position
2015 - present	Rebecca Clark, PhD	Integrative Biology, UCB (start-up funding)	Research advisor, career advisor	Postdoc, UCB