CATHERINE L. CARDELÚS, PH.D.

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Department of Biology
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Hamilton, NY 13346
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CURRENT POSITION

2019-2020 2014-Present	Gretchen Hoadley Burke Endowed Chair in Regional Studies, Colgate University Associate Professor of Biology & Environmental Studies, Colgate University, Hamilton, NY	
2015-2016	Visiting Professor, University of Wollongong, Australia	
2008-2014	Assistant Professor of Biology, Colgate University, Hamilton NY	
2013-2016	Adjunct Assistant Professor, Clemson University, Clemson SC	
EDUCATION		
2002	Ph.D. Department of Ecology & Evolutionary Biology, University of	
	Connecticut, Storrs, CT. Ph.D. Thesian Distribution and shundance of vectorial visit forests:	
	Thesis: Distribution and abundance of vascular epiphytes in tropical wet forests:	
1006	a multiscale approach. (Advisor: Dr. Robin L. Chazdon)	
1996	B.A. Barnard College, New York, N.Y. Biology w/ honors & Ancient	
	Greek Language (Cum Laude) (Advisor: Dr. Helen Young)	

PUBLICATIONS (*INDICATES UNDERGRADUATE STUDENT) PUBLISHED WORKS & IN REVIEW

2019

Cardelús, C.L., C.L. Woods, A. Bitew Mekonnen, S. Dexter*, P. Scull, B. Tsegay Abraha. (2019). Disturbance impacts the integrity of sacred church forests, Ethiopia. *PlosONE*. 14, 3: e0212430. https://doi.org/10.1371/journal.pone.0212430

2018

- Woods, C.L., S.J. DeWalt, C.L. Cardelús, K.E. Harms, J.B. Yavitt, S.J. Wright. (2018). Fertilization influences the nutrient acquisition strategy of a nomadic vine in a lowland tropical forest understory. *Plant and Soil*. 431: 389-399. https://doi.org/10.1007/s11104-018-3772-9.
- Tsegay, Berhanu Abraha, A.T. Tsadik Weldeyes, C.L. Cardelús. Traditional use of botanicals in reducing post harvest loss at crop stacking stage in Ethiopia: A case of Farta district. *Indian Journal of Traditional Knowledge*. 17, 3: 534-541.

2017

- Cardelús, C.L., P. Scull, A. Wassie, C.L. Woods, P. Klepeis, E. Kent, & I. Orlowska. (2017). Persistence of sacred forests in northern Ethiopia. *Biotropica*. 49, 5: 725-733. https://doi.org/10.1111/btp.12431.
- Woods, C.L., C.L. Cardelús, P. Scull, A. Wassie, M. Baez*, P. Klepeis. (2017). Stone walls and sacred forest conservation in Ethiopia. *Biological Conservation*. 26 209-221. https://doi.org/10.1007/s10531-016-1239-y
- Scull, P. C.L. Cardelús, P. Klepeis, C.L. Woods, A. Frankl, J. Nyssen. (2017). The resilience of Ethiopian church forests evidenced from a diachronic analysis using 1930's aerial

photographs. *Land Degradation and Development*. 28: 450-458. https://doi.org/10.1002/ldr.2633

2016

Klepeis, P., I. Orlowska, E. Kent, C.L. Cardelús, P. Scull, A. Wassie & C.L. Woods. (2016). Ethiopia church forests: a hybrid model of protection. *Human Ecology*. 44: 715-730. https://doi.org/10.1007/s10745-016-9868-z

2015

Woods, C.L., S.J. Dewalt, & C.L. Cardelús. (2015). Microhabitat associations of vascular epiphytes in a wet tropical forest canopy. Journal of Ecology. 103: 421-430. https://doi.org/10.1111/1365-2745.12357

2014

Oberbillig, D., Randle, D.C., Middendorf, G., & C.L. Cardelús. (2014) Outdoor Learning in Formal Ecological Education – Looking to the Future. *Frontiers in Ecology and the Environment* 27: 419-420. https://doi.org/10.1890/1540-9295-12.7.419

2013

- Cardelús, C.L., & G. Middendorf. (2013) Ecological literacy: the educational foundation for informed public decision making. *Frontiers in Ecology & the Environment* 11: 330-331. https://doi.org/10.1890/1540-9295-11.6.330
- Cardelús, C.L., M. Baimas-George*, M.D. Lowman, & A. Wassie Eshete. (2013). Carbon Sequestration in Ethiopia. Edited volume: *Treetops at Risk: Challenges of Global Canopy Ecology and Conservation*. https://doi.org/10.1007/978-1-4614-7161-5
- McCay, T.S., C. Cardelús, & M. Neatrour. (2013). Rate of litter decay and litter macroinvertebrates in limed and unlimed forests of the Adirondack Mountains, USA. *Forest Ecology and Management* 304:254-260. https://doi.org/10.1016/j.foreco.2013.05.010
- Cardelús, C.L., P. Scull, J., M. Baimas-George*, M.D. Lowman, & A. Wassie Eshete. (2013). A preliminary assessment of Ethiopian sacred groves at the landscape and ecosystem scales. *Diversity* 5 (2): 320-334. https://doi.org/10.3390/d5020320

2012

- Watkins, J.E. Jr. & C.L. Cardelús. (2012). Ferns in an angiosperm world: cretaceous radiation into the epiphytic niche and diversification on the forest floor. *International Journal of Plant Sciences* 173, 6: 695-710. https://doi.org/10.1086/665974
- Beck, C., K. Klemow, J. Paulson, A. Bernstein, M. Lam, G. Middendorf, J. Reynolds, K. Belanger, C. Cardelús, C.Cid. (2012). Add Ecology to the Pre-Medical Curriculum. *Science* 335: 1301. https://doi.org/10.1126/science.335.6074.1301-a
- Cardelús, C.L. (2012). Surveying Epiphytes in Forest Canopies. *In* Methods in Forest Canopy Research. Eds. M.D. Lowman & T. Schowalter. University of California Press.
- Cardelús, C.L., M. Lowman, & A. Wassie Eshete. (2012). Uniting Church and Science for Conservation. *Science* 335: 916-917. https://doi.org/10.1126/science.335.6071.915

2011

Laurance, W.F., D.C. Useche, L.P. Shoo, S.K. Herzog, M. Kessler, F. Escobar, G. Brehm, J.C. Axmacher, I. C. Chen, L.A. Gámez, P. Hietz, K. Fiedler, T. Pyrcz, J. Wolf, C.L. Merkord, C.L. Cardelús, A.R. Marshall, C. Ah-Ping, G.H. APlet, M. del Coro Armizmendi, W. J. Baker, J. Barone, C.A. Bruhl, R.W. Bussmann, D. Cicuzza, G. Eilu, M.E. Favila, A. Hemp, C. Hemp, J. Homeier, R.B. Huey, J. Hurtado, J. Jankowski, G. Kattán, J. Kluge, T. Kromer, D. Lees, M. Lehnert, J.T. Longino, J. Lovett, P.H. Martin B.D. Patterson, R.G. Pearson, K.S. H. Peh, B. Richardson, M. Richardson, M. Samway,

F. Senbeta, T.B. Smith, T. Utteridge, J.E. Watkins, Jr., R. Wilson, S.E. Williams, & C. Thomas. (2011). Global warming and the vulnerability of tropical biota. *Biological Conservation* 144: 548-557. https://doi.org/10.1016/j.biocon.2010.10.010

2010

- Cardelús, C.L. & M.C. Mack. (2010). The nutrient status of epiphytic ferns, orchids and bromeliads and their host tree along an elevation gradient, Costa Rica. *Plant Ecology* 207 (1): 25-37. https://doi.org/10.1007/s11258-009-9651-v
- Cardelús, C.L. (2010). Litter decomposition in the canopy and on the forest floor of three tree species in a tropical rainforest, Costa Rica. *Biotropica* 42 (3): 300-308. https://doi.org/10.1111/j.1744-7429.2009.00590.x

2009

- Watkins, Jr. & C.L. Cardelús, C.L. (2009). Habitat differentiation of ferns in a lowland tropical rainforest. *American Fern Journal* 99 (3): 162-175. https://doi.org/10.1640/0002-8444-99.3.162
- Cardelús, C.L., M.C. Mack, C.L. Woods, J. DeMarco & K. Treseder. (2009). Nutrient cycling in canopy and forest floor soils in a lowland tropical wet forest, Costa Rica. *Plant and Soil* 318 (1): 47-61. https://doi.org/10.1007/s11104-008-9816-9

2008

- Colwell, R.K., G. Brehm, C.L. Cardelús, A.C. Gilman & J.T. Longino (2008). Global warming, elevational range shifts, and lowland biotic attrition in the wet tropics. *Science* 258-261. http://viceroy.eeb.uconn.edu/ColwellEtAlScience.htm; https://doi.org/10.1126/science.1162547
- Watkins, Jr., J.E., C.L. Cardelús & M.C. Mack (2008). Ants mediate nitrogen relations of an epiphytic fern. *New Phytologist* 180 (1): 5-8. https://doi.org/10.1111/j.1469-8137.2008.02606.x

2007

- Robertson, J.M., C.L. Cardelús, and M.I. Williams (2007). Arboreal oviposition site in the fossorial snake, *Enulius sclateri*. *Herpetological Review* 38(4): 466-467.
- Watkins, Jr. J.E., P. Rundel, & C.L. Cardelús. (2007) The influence of plant life form on carbon and nitrogen relationships in tropical rainforest ferns. *Oecologia* 153 (2): 225-232. https://doi.org/10.1007/s00442-007-0723-1
- Cardelús, C.L. (2007). Vascular epiphyte communities in the inner-crown of *Hyeronima alchorneoides* and *Lecythis ampla* at La Selva Biological Station, Costa Rica. *Biotropica* 39 (2): 171-176. https://doi.org/10.1111/j.1744-7429.2006.00253.x

2006

- Watkins Jr., C.L. Cardelús, R.C. Colwell, & R. Moran. (2006). Species richness and distribution of ferns along an elevational gradient in Costa Rica. *American Journal of Botany* 93 (1) 73-83. https://doi.org/10.3732/ajb.93.1.73
- Cardelús, C.L., R.C. Colwell, J.E. Watkins, Jr. (2006). Vascular epiphyte distribution patterns: explaining the mid-elevation richness peak. *Journal of Ecology* 94 (1): 144-146. https://doi.org/10.1111/j.1365-2745.2005.01052.x

2005

Cardelús, C.L. & R.L. Chazdon. (2005) Inner-crown microenvironments of two emergent tree species in a lowland wet forest. *Biotropica* 37: 238-244. https://doi.org/10.1111/j.1744-7429.2005.00032.x

B. WORKS IN REVIEW

Cardelús, C.L., A. Bitew Mekonnen*, K.H. Jensen*, A.M., C.L. Woods, M.C. Baez*, M. Montufar*, K. Bazany*, B.A. Tsegay, P.R. Scull, W. Peck. (*in prep.*). Soil nutrient dynamics in sacred church forest fragments in northern Ethiopia. Forest Ecology & Management

Baez*, M., M. James*, K. Hankowsky*, I. Helfant, P. Scull, C.L. Cardelús. (*in review*). Development, Implementation and Maintenance of a Deer Management Program in Hamilton, New York. Wildlife Society Bulletin.

C. WORKS IN DRAFT FORM (* DENOTES STUDENT)

- Hanrahan, B.*, R.L. Fuller, and C.L. Cardelús. Does leaf calcium content affect leaf decomposition, microbial respiration or macroinvertebrate community composition in acid stressed streams?
- Woods, C.L., C.L. Cardelús, M.C. Baez*, E. Messing*, S. Reagan*. The influence of different epiphyte taxa on the nutrient status of canopy humus: A fertilization experiment. *Oecologia*.
- Vondracek, S.*, C. Spevacek*, K. Bascom*, M. James*, and C.L. Cardelús (*in prep.*) The effects of mitigative liming on soil status and litter decomposition rates in the Adirondack State Park, NY, 2012-2018. Target Journal: *Canadian Journal of Botany*.
- Woods, C.L., C.L. Cardelús, A. Bitew Mekonnen, M.C. Baez, B. Tsegay Abraha (*in prep.*) Biodiversity of the last remaining forests in northern Ethiopia, protected sacred church forests. *Invited paper for special issue in Forests on Conservation in Protected Areas*.

PROFESSIONAL RECOGNITION

GRANTS

2019-2021	The Upstate Institute, Colgate University: Team-Taught Course Development
	Grant for Conservation Biology: Science & Practice. The intent of this team-
	teaching RFP is to seek novel, innovative team-teaching proposals that
	benefit both the faculty and students involved in the team-taught course.
2017-2019	The Upstate Institute & Sustainability Council, Colgate University: The Impact
	of White-Tailed Deer on Colgate Forests: Richness. PI Cardelús; Co-PI's: Fuller,
	McCay, Scull, Watkins, \$18,000.
2015-2018	NSF RUI-CNH Small Grant: Shadow Conservation: What are the Mechanisms of
	Religious Management for Forest Persistence. PI Cardelús; Co-PI's: P. Scull, P.
	Klepeis, E. Kent, A. Wassie Eshete, I. Orlowska, C. Woods. \$500,000
2014-2019	MRI: Acquisition of a TXRF spectrometer for Research in Chemistry, Biology,
	and Geology. PI Rowlett; Co-PI's: C. Cardelús, R. Fuller, R. April. \$102,740
2014-2015	PI on Collaborative Research Proposal: Colgate Picker Interdisciplinary Science
	Institute: What socio-ecological processes create strong stewardship of church
	forests of northern Ethiopia. \$100,000. Co-PI's: P. Scull, P. Klepeis, E. Kent, A.
	Wassie Eshete, I. Orlowska, C. Woods.
2014-2015	Sponsored Research Support Fund. Colgate Research Council, \$15,133
2014-2015	Research Council Major Grant, Colgate University: Experimental study of
	nutrient addition and water exclusion on canopy ecosystem processes and
	epiphyte community structure. \$7,825
2013-2014	PI on Collaborative Research Proposal: Colgate Picker Interdisciplinary Science
	Institute: Does religious management supersede the socio-ecological drivers of
	forest change in sacred groves of northern Ethiopia? \$90,000. Co-PI's: P. Scull,
	P. Klepeis, E. Kent, A. Wassie Eshete, M. Lowman.
2013-2014	Research Council Major Grant, Colgate University: Experimental Study of
	Nutrient Addition and Water Exclusion on Canopy Processes and Epiphyte
	Community Structure. \$7500

2012-13	The Upstate Institute, Colgate University: Above and Belowground Responses to
2012-13	Acid Rain Mitigation in Adirondack State Park. \$5000
2010-13	NSF: Research Initiation Grant: Experimental Study of Canopy Nutrient
	Limitation on Ecosystem Processes and Community Structure. \$187,629
2010	Picker Interdisciplinary Science Institute Grant: Conservation of Ethiopian
2000	Church Forests. \$5,307.00 (http://www.catherinecardelus.com/ethiopia/)
2009	Faculty Research Council, \$1500 for travel to AAAS in Chicago to participate in a workshop: Career Boosters for Women and Minority
	Scientists.
2009	Faculty Development Council, \$500, for AAAS workshop.
2008-09	NSF Research Starter Grant: Exploring the nutrient dynamics of
	herbaceous taxa from temperate and tropical regions, \$50,000
2000-2001	NSF Doctoral Dissertation Improvement Grant, \$5000
2000	Organization for Tropical Studies Research Grant, \$3000
1998	Organization for Tropical Studies, Post-course Grant, \$600
	FELLOWSHIPS
2006	
2006	Postdoctoral Research Fellowship, South East Alliance for Graduate Education and the Professoriate (SEAGEP-NSF), \$50,000
2003-2006	Minority Postdoctoral Research Fellowship, NSF, \$160,000
2003-2000	Postdoctoral Research Fellowship, Mellon Foundation, \$48,000
2002	Dissertation Research Fellowship, University of Connecticut, \$3,000
2001	Multicultural Fellowship, University of Connecticut, \$7,500
1998	Multicultural Summer Fellowship, University of Connecticut, \$3000
1998-2001	NSF Graduate Student Research Fellowship, \$55,000
1998	NSF Minority Graduate Student Research Fellowship (Awarded)
1997-1998 1996	Multicultural Fellowship, University of Connecticut, \$15,000 The Grace Potter Rice Fellowship, Columbia University, \$4,000
1996	Summer Fellowship, Barnard College, \$500
1770	Summer Tenowship, Daniara Conege, \$500
	AWARDS & HONORS
2010, 13, 19	Extended Study Funded for three-week trip to Costa Rica Associated with my
	course: Tropical Ecology, BIOL 332. ~\$22,000
	(http://www.catherinecardelus.com/extended-study-2010/ ; http://www.catherinecardelus.com/blog/)
2007	Travel Award, Ecological Society of America (ESA) and Women
2007	Evolving Biological Sciences (WEBS), \$700
2002	Bamford Award, University of Connecticut, \$500
2002	Travel Award, University of Connecticut, \$1,200
2000	Biodiversity Award, University of Connecticut, \$500
1999	Edgar T. Wherry Award, American Fern Society & BSA, \$500
1999	Pilot Study Award, Organization for Tropical Studies, \$1500
1998	Bamford Award: Summer, University of Connecticut, \$500
1996 1996	Hermann Botanical Prize, Barnard College, \$500 Cum Laude, Barnard College
1994-1996	Dean's List, Barnard College
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PROFESSIONAL ACTIVITIES & SERVICE

June 2018 Network for Conservation Educators and Practitioners (NCEP): Conservation

	Teaching and Learning Studio, Participant (American Museum of Natural History)
2013-present	Certified Senior Ecologist, Ecological Society of America.
2013-present	Cardelús lab is a USDA APHIS Inspected Facility Authorized to Receive Soil
	https://www.aphis.usda.gov/aphis/ourfocus/planthealth/import-
	information/permits/regulated-organism-and-soil-permits/sa_soil/facilities
May 2015	InterGroup Dialogue Facilitator Training, Colgate University
Jan 2013	Managing Editor, Springer Science Reviews Journal.
Sept. 2013	Launch of Ecoliteracy series in <i>Frontiers in Ecology and the Environment</i> . Co-Edited with Dr. George Middendorf and co-editors were responsible for proposal, solicitation, and editing of series. Papers published monthly through July 2014.
June 2013	Co-organized symposium with Carrie Woods (Clemson University) at the annual Association for Tropical Biology Meeting in San Jose, Costa Rica titled:
	Changing water and nutrient regimes in the rainforest canopy: the impact on the
April 2012	resident epiphytes. (http://atbc2013.org/programs/symposia/) Panelist: Energy, Community and Colgate. Colgate University
Fall 2011	Review Panelist: NSF DEB
2007-2011	Member, Education and Human Resources Committee for the Ecological
2007 2011	Society of America.
Aug. 2010	Co-organized a special session titled: Using Best Science to Educate a Public
	Confused about Global Climate Change. Ecological Society of America, Annual
	Meeting. Pittsburgh, PA.
	http://eco.confex.com/eco/2010/techprogram/S5798.HTM
2008-2012	External Ph.D. Committee Member for Carrie Woods, Clemson University.
May 2009	Interviewed for Nature Magazine by Karen Kaplan for 'Unmasking the Imposter.' Nature 459, 468-469.
April 2009	Interviewed for Science Magazine by Elisabeth Pain for 'Professional Service.'
	http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2
E 1 2000	009 04 24/caredit.a0900053
Feb. 2009	Workshop Speaker: Career Boosters for Women and Minority
	Scientists. Association for the Advancement of Sciences Annual Meeting, Chicago.
June 2008	Interviewed for Science Careers by Elisabeth Pain: A Self-Made Climber.
June 2006	http://sciencecareers.sciencemag.org/career magazine/previous issues/articles/2
	008 06 13/caredit.a0800088
June 2008	Association for Tropical Biology & Conservation Symposium Co-chair with G.
	Zotz: Diversity in the Canopy.
	http://www.atbc2008.org/program/symposium_zotz.htm
Oct. 2007	NSF ADVANCE Workshop, Women Evolving Biological Sciences
	(WEBS). Selected participant. 2007, Pack Forest Conference Center, WA.
	http://www.engr.washington.edu/advance/webs/
Oct. 2007	Ecophylogentics Workshop Participant, Harvard Forest, MA.
2005	http://www.cbs.umn.edu/cavender/ecophylogenetics.shtml
2007	ESA Judge for student poster and oral presentations
2005	Ecoinformatics Workshop Participant, The Science Environment for Ecological
	Knowledge (SEEK), University of New Mexico, NM.
	http://seek.ecoinformatics.org

TEACHING EXPERIENCE COLGATE UNIVERSITY—AN UNDERGRADUATE LIBERAL ARTS INSTITUTION

Biodiversity & Biogeography of Australia (Wollongong, Australia; 15 students): F2015 Conservation Biology (Biol330; 18 students): S2014, S2015, S2017, F2018

Community-Based Environmental Issues (ENST390; 15-18 students): F2013, F2016

Conservation Biology: Science & Practice with Laboratory (ENST389; 15-18 students)

Ecology, Evolution & Diversity (Biol 211/181; lecture: 70-90 students; lab: 18 students): Biology for Majors: F2008, S2009, F2009, S2010, S2011, F2011, F2013, S2014, S2015, F2016, S2017, F2017

Ecology with Laboratory: (Biol203; 7-16 students) F2014, S2018, F2018

Ecosystem Ecology with Laboratory (Biol 329; 12-15 students): F2008, S2011, F2012

Global Change & YOU! (CORESP 128, FSEM 124; 15-18 students): Non-majors Scientific Perspectives Course: F2009, F2010, F2012, F2017

Tropical Ecology with three-week extended study to Costa Rica (Biol 332: 15 students):

S2010, S2013, F2019 (http://www.catherinecardelus.com/costa-rica-extended-study/)

Research Tutorial: Biodiversity, Community & Ecosystem Ecology (Biol 476; 6 students): Independent Research Conducted by Seniors: S2009, F2010, F2011, F2012, F2013, F2014, F2016, F2017, (F2018)

FACULTY-STUDENT RESEARCH

In the Cardelús lab, students can choose to work on of one three long-term research projects or develop their own research project.

ACADEMIC YEAR: RESEARCH CLASS, INDEPENDENT STUDIES AND HONORS RESEARCH

I have taught 51 students in independent research.

SUMMER RESEARCH

MENTORING

Funding was provided by: National Science Foundation Research Initiation Grant to Cardelús; a summer research fellowship from the Division of Natural Sciences (NASC) Colgate University; Colgate's Scholarships in Science, Technology, Engineering and Math Program (S-STEM); Colgate's Research Council Grant to Cardelús; or Brazilian Government Funding.

I have mentored 53 student in summer research across 4 projects:

Sarapiquí, Costa Rica: 2010-2014

Students conducted research on the influence of nutrient addition on canopy epiphyte community composition and ecosystem processes as part of a long-term research project in Costa Rica. Student's with asterisk did not travel to Costa Rica, but worked in the lab on campus.

Amhara, Ethiopia: 2015-2018

Our research team studies the conservation of church forests in northern Ethiopia. On each trip students accompany us and often conduct their senior research on the project.

New York, Adirondacks-Long term research site (2009-Present)

My lab studies the above and belowground impacts of liming on acid deposition affected forests.

New York, Hamilton-Establishment of Long-Term study on deer impacts on forests (2017-present)

2017

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2017	Organization for Tropical Studies Resource Faculty, Cueríci, Costa Rica
2016	Lectures given to those involved in our research on the conservation of church
	forests in the Amhara region of Ethiopia. We had two Masters, one PhD student,
	and three technicians working on the project in Ethiopia.
2004	Guest Lecturer for Introductory Botany, University of Florida
Summer 2004	Mentor at La Selva Biological Station, Costa Rica: NSF Research Education for
	Undergraduates; student from University of Costa Rica; two undergraduate
	students from Evergreen State College; two high school students from New
	Jersey, USA.
	Organization for Tropical Studies Resource person for Tropical Plant
	Systematics
2000	Assisted Teacher Training Course, Costa Rica
1999	Seminar, University of Connecticut: Helped organize and teach a seminar which
	introduced primary literature to undergraduates
1998, 2002	Introductory Laboratory Instructor, University of Connecticut
1997	Methods in Ecology, University of Connecticut
1996	Introductory Laboratory Instructor, Barnard College
1995	Organic Chemistry Teaching Assistant, Barnard College

Non-Colgate Advising

2019-present	Dissertation Committee, Mabel C. Baez, University of Florida
2015-present	Co-Advisor, PhD student Amare Bitew, Bahir Dar University, Ethiopia
2010-2013	Dissertation Committee, Carrie Woods, Clemson University.

POSTERS & PRESENTATIONS (*DENOTES PRESENTER, *UNDERGRADUATE STUDENT) A. ORAL TALKS/PUBLISHED ABSTRACTS PRESENTED AT PROFESSIONAL MEETINGS

- Cardelús⁺, C.L, C.L. Woods, A. Bitew Mekonnen, S. Dexter^{*}, P. Scull, B. Tsegay Abraha. Disturbance impacts the integrity of sacred church forests. (ATBC), Madagascar, July 2019.
- Cardelús⁺, C.L., C.L. Woods, M. Baez*, P. Ryan*, L. McCulloch*, T. Wobby* & S. Young. Nutrient addition and water exclusion impacts on epiphytes in a lowland rainforest in Costa Rica. Association for Tropical Biology (ATBC), Honolulu HI. July 15, 2015.
- Woods⁺, C.L., C.L. Cardelús, P. Ryan*, M. Baez*, L. McCulloch* & S. Young*. The physiological and morphological responses of vascular epiphytes to long-term nutrient addition and water exclusion in a lowland wet rainforest in Costa Rica. Association for Tropical Biology (ATBC), Honolulu HI. July 15, 2015.
- Klepeis⁺, P., Cardelus, C., Kent, E., Orlowska, I., Scull, P., Wassie Eshete, A. and C. Woods. Ethiopian Church Forests as Sacred Groves and Common Pool Resources. Association of American Geographers (AAG) Annual Meeting. Chicago, Illinois. April 21-25.
- Scull⁺, P., C. Cardelús, E. Kent, P. Klepeis, I. Orlowska, A. Wassie Eshete, & C. Woods. The persistence of Church Forests in South Gondar, Ethiopia. April 2014. Association of American Geographers (AAG). Annual Meeting. Chicago, Illinois. April 21-25.
- Cardelús⁺, C.L C. Woods, S. Reagan*, E. Messing* & K. Soule*. Impacts of increased nutrient deposition on epiphyte nutrient status and community structure. June 2013. Association for Tropical Biology (ATBC), San José, Costa Rica.

- McCay⁺, T.S., C.L. Cardelús, S. Vondracek*, & M. Neatrour. Litter decay and the role of macroinvertebrate decomposers in limed and unlimed forests of the Adirondack Mountains. Aug 2013. Ecological Society of America (ESA), Minneapolis, Minnesota.
- Scull⁺, P., C.L. Cardelús, & J. Hair*. An Inventory of Church Forests in the Debre Tabor region of northern Ethiopia. American Association of Geographers Annual Meeting. Los Angeles, CA. April 9th, 2013.
- Cardelús⁺, C.L C. Woods, A. Pellegrini*, S. Reagan*, E. Messing*, & K. Soule*. Epiphyte community and ecosystem process shifts in response to nutrient addition. October 2012. 6th International Canopy Conference, Oaxaca Mexico.
- McCay⁺, T.S., M A. Neatrour, C. L. Cardelús and M. Zimmerman^{*}. Effects of watershed liming on a food web in an Adirondack forest. Aug. 2010. Oral Presentation: ESA, Pittsburth, PA.
- Cardelús⁺, C.L. Epiphyte community assembly and climate change. Oct. 2009. Fifth International Canopy Conference. Bangalore, India
- Espeleta⁺, J.F., T. Taylor*, C.L. Cardelús, & J. S. Powers. Soil glomalin accumulation tracks landscape heterogeneity in tropical regions: Fom large-scale edaphic and vegetation variation to local effects via epiphytic contributions to the forest floor. Aug. 2009. ESA, Milwaukee, WI.
- Cardelús⁺, C.L. & M.C. Mack. Resource partitioning by vascular epiphytes in the rainforest canopy, Costa Rica. ESA, Milwaukee Wisconsin, Aug. 2008
- Cardelús⁺, C. & M.C. Mack. Resource partitioning by vascular epiphytes: a mechanism for species richness maintenance in the rainforest canopy. ATBC, Paramaribo, Suriname. June 2008.
- Cardelús⁺, C. & M.C. Mack. Litter decomposition in the canopy and forest floor of a wet tropical forest: consequences for nutrient cycling. Poster: ESA, San Jose, California. Aug. 2007
- Colwell⁺, R.K., G. Brehm, C.L. Cardelús, A.C. Gilman, & J.T. Longino. Modeling and predicting the effects of global warming on range shifts, biotic vacuums and mountaintop extinctions in the tropics. ATBC, Morelia, Mexico. July 2007.
- Cardelús⁺, C.L., M.C. Mack, E.G. Schuur, & J.E. Watkins, Jr. Nutrient status of vascular epiphytes on an elevation gradient in Costa Rica. ESA, Portland Oregon. Aug. 2004
- Cardelús⁺, C. L. Environmental determinants of vascular epiphytes distribution and abundance in tropical wet forests. ESA, Savannah Georgia. Aug. 2003
- Cardelús⁺, C. L. Canopy microclimate: a vascular epiphyte's perspective. Oral Presentation: Ecological Society of America, Tucson Arizona. Aug. 2002
- Cardelús⁺, C.L. Diversity of vascular epiphytes along an elevational gradient in Costa Rica. Third International Canopy Meeting, Cairns Australia. June 2002
- Cardelús⁺, C.L. Effects of microenvironment and tree characteristics on canopy vascular epiphyte distribution. Ecological Society of America, Snowbird Utah, August 2000.

B. POSTERS/PUBLISHED ABSTRACTS PRESENTED AT PROFESSIONAL MEETINGS

- Pellegrini*⁺, A. & C.L. Cardelús. Effects of temperature and nutrient levels on life history characteristics in a tank bromeliad *Vriesea cathyi*. Aug. 2010. Poster: ESA, Pittsburth, PA.
- Cardelús⁺, C.L., Roy*, J., M. Lostumbo*, & T. S. McCay. Effects of Acid Deposition and Liming Mitigation on Belowground Processes. Aug. 2010. Poster: ESA, Pittsburth, PA.
- Cardelús⁺, C.L., M.C. Mack, & K. Treseder. Nutrient availability and status of organic and mineral soils at a lowland rainforest site, Costa Rica. Poster: ESA, Memphis Tennessee. Aug. 2006

- Woods⁺, C., C.L. Cardelús, & M.C. Mack. *In situ* net nitrogen mineralization patters of canopy humus and forest floor soil of three emergent tree species of a lowland tropical forest, Costa Rica. Poster: CONFOR, Duparquet, Quebec. Feb. 2006.
- Watkins⁺, J.E. Jr., & C.L. Cardelús, Habitat segregation in epiphytic and terrestrial ferns. Poster: XVI International Botanical Congress, St. Louis Missouri, July 1999. Winner of the Edgar T. Wherry Award for best poster.
- Cardelús⁺, C.L. & J.E. Watkins, Jr. Epiphytic fern stratification on the trunks of *Hyeronima alchorneoides* (Euphorbiaceae) at the La Selva Biological Station, Costa Rica. Poster: International Canopy Conference, Sarasota Florida. November 1998.

	INVITED SEMINARS/WORKSHOPS/PANELS
2018	University of Puget Sound, Department of Biology seminar series: <i>The trickle</i> -
2010	down effects of losing a top carnivore in a rural community.
2017	• A Case for Science: A Faculty Panel
_017	Profs. Beth Parks (Physics), Randy Fuller (Biology, ENST), Mike Loranty
	(Geography), Catherine Cardelús (Biology, ENST), Jason Keith (Chemistry)
	• Teaching with the Future in Mind: How to Bring Sustainability into the
	Classroom. Teaching Table. Facilitators: Catherine (Cat) Cardelús, Associate
	Professor of Biology and Environmental Studies; Ana Jimenez, Assistant
	Professor of Biology; Jason Kawall, Associate Professor of Philosophy and
	Environmental Studies; Director, Lampert Institute for Civic and Global Affairs;
	Director, Environmental Studies Program
	• Faculty Diversity Council, Mentoring Workshop: Improving classroom dynamics
	Drs. Catherine Cardelús (Biology, ENST) and Julia Martinez (Psychology)
2015	• Colgate University, Environmental Studies Seminar Series. <i>How will pollution</i>
	impact the rainforest canopy? March 2015
	Are you teaching to the past or to the future? Teaching Table.
	• Facilitators: Drs. Daniel Bouk and Catherine Cardelús April 2015
2014	Invited Speaker at Workshop for Adirondack Research Consortium: What is the
	Greater Threat to Northern Forest Communities: Climate Change of White-tailed
	Deer? Speaker in: Community Experiences: Case Studies and Implementation
	Plans—Community-based Environmental Issues, White-tailed Deer in Hamilton NY.
2014	•Colgate University, Natural Sciences Seminar Series. Ecological Status of
	Ethiopian Church Forests.
	•Colgate University Environmental Studies Brown Bag Series: Forest
	Conservation in Ethiopia: Socio-ecological processes and stewardship of
	Ethiopian Orthodox Church Forests.
	• Joint presentation with collaborators. La Selva Biological Station, Costa Rica.
2012	Conservation of Ethiopian Church Forests. June 2014.
2012 2010	Hamilton College, <i>The Canary in the Canopy.</i> NSF Research Education for Undergraduates Program, Costa Rica
2010	Adventures of a Tropical Ecologist
2010	Life Long Learners, Colgate University: Look Up! Biodiversity & Climate
-	Change in the Rainforest Canopy
2009	Tropical Biodiversity Seminar for Outdoor Education
2009	Panel Member: Graduate School in Biology, Molecular Biology & Ecology.

Colgate University, Career Service. (Career Services)

2009	Panel Member: Patching the Leak in the Pipeline: Advice for Women Entering
	Careers in Science (Women's Studies)
2009	Kick-off talk for Darwin Week: Plants and Tropical Diversity.
2009	•University of North Carolina, Curriculum for the Environment & Ecology: <i>Up in the Rainforest: The Canopy & Global Change</i>
	•Colgate University, University-Wide: Darwin, Plant, & Tropical Biodiversity;
	Alfred University, Environmental Studies Program: Look-up! The Impact of
	Global Warming on the Rainforest Canopy
2008	Colgate University, Department of Biology: The Community & Ecosystem
	Ecology of the Rainforest Canopy
2007	Oklahoma State University, Department of Botany: The Tropical Rainforest
	Canopy: Nutrient Cycling & Epiphyte Diversity
	Harvard Forest: The Tropical Rainforest Canopy: Nutrient Cycling & Epiphyte
	Diversity
	Harvard University Herbarium: Nutrient Cycling in Rainforest Canopies
2003	University of Florida, Department of Botany: Distribution & Abundance of
	Vascular Epiphytes in Tropical Wet Forests: a Multiscale Approach
2002	University of Connecticut, Department of Botany: Distribution & Abundance of
	Vascular Epiphytes in Tropical Wet Forests: a Multiscale Approach
1999	La Selva Biological Station, Seminar Series: Epiphyte Distribution & Abundance
	at La Selva Biological Station, Costa Rica

MEMBERSHIPS

Association for Tropical Biology and Conservation (ATBC)
American Association for the Advancement of Sciences (AAAS)
American Association of University Professors (AAUP)
Botanical Society of America (BSA)
Ecological Society of America (ESA)
International Canopy Network (ICAN)

AD-HOC REVIEWER

American Fern Journal, American Journal of Botany, Association for Women in Science, Austral Ecology, Biotropica, Conservation Biology, Ecological Society of America, Annual Meeting Symposia and Oral Presentations, Ecology, Folia Geobotanica, Forest Ecology & Management, Global Change Biology, Global Ecology and Biogeography, Journal of Biogeography, Journal of Ecology, Journal of Tropical Ecology, Murdoch Charitable Trust, National Science Foundation, Nature Scientific Reports, Plant Ecology, Selbyana, Soil Biology and Biochemistry; Tenure Review.

COLGATE UNIVERSITY-WIDE ACTIVITIES & SERVICE

2018-Present	Member, Steering Committee of the Diversity, Equity and Inclusion Task Force
2017-Present	Instructor, Beginning Yoga for Brown Commons
2018	Chair, Faculty Due Process and Oversight Committee
2017-2019	Member, Bicentennial Committee
2017-2018	Member, Advisory and Planning Committee
2017-2018	Chair, Faculty Affairs Committee
2016-2020	Member, Faculty Affairs Committee
2016-Present	Chair, Sustainability Council
	Chair, Sustainability Curriculum Subcommittee
2016-2017	Member, Dean of the Faculty Search Committee

2015-Present	Member, Steering Committee for Environmental Studies
2014-Present	Faculty Diversity Council
2015	LGBTQ Program Review
2015, Spring	Interim Director, Women's Studies Program
2014-2015	Chair, Sustainability Council
2013-2015	Safety Advisory Committee
2013-2014	Member, Sustainability Council
2012-2015	Udall Faculty Fellowship Committee
2009-2015	Women's Studies Advisory Board
2010-2012	Faculty advisor for the Natural History Club
2009-2012	Alana Affairs Committee Member
2010	Goldwater Faculty Fellowship Committee
Fall 2009	Interim Faculty Liason for Field Hockey
July 2009	Conducted two workshops in the field for Colgate's Summer Sports & Science
•	Camp
2008-Present	Search Committees across Departments and Programs: Biology, Women's
	Studies, Environmental Studies, Outdoor Education Program
	OUTREACH ACTIVITIES
2014-Present	Town of Hamilton, Deer Management Task Force.
2011-2013	Lectures given in Tropical Ecology and Conservation Biology to 2 nd , 3 rd , and 8 th
	graders and worked with the agriculture teacher at Hamilton Central School on
	guest lectures for program.
Spring 2012	Part of working group that drafted 'Generic Impact Statement on Industrial Wind
	Turbines in the Town of Madison.'
2012	Ecoliteracy program taught for the Chenango Afterschool Program in which a
	common garden was started and continued through the summer, a
	vermicomposting bin, and other activities geared toward connecting children to
	nature.
2002-06	Gave five lectures to grade schools in Florida & New York on Rainforest
	Ecology and Women in Science.
2005	Judge for two middle school science fairs in Gainesville, Fl.
1999-2001	La Flaminia, Costa Rica
	 Involved with Parent Teacher Association to raise money to improve
	school infrastructure.
	 Worked with large local landowners, and other residents, to increase
	awareness of the devastation caused by deforestation.

- o Organized local fundraisers to pay for the education of three young women in the community.
- o Organized transportation for local citizens to vote on a referendum establishing the Sarapiquí river a national monument.
- o Worked with and provided environmental literature and canopy access training for Costa Rican National park guards.
- o Provided free English classes to 15 local residents ages 5-65.

LANGUAGES

Bilingual English/Spanish, Fluent Italian