

Tara M. Cornelisse, PhD

Canisius College

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ACADEMIC APPOINTMENTS

2015-present Assistant Professor, Department of Animal Behavior, Ecology, and Conservation, Canisius College, Buffalo, New York

2014-2015 Adjunct Assistant Professor, Urban Conservation in the Anthropocene, Macaulay Honors College, City University of New York, Brooklyn College

POSTDOCTORAL EXPERIENCE

2014-2015 Science Editorial and Postdoctoral Fellow, Network of Conservation Educators and Practitioners (NCEP), Center for Biodiversity and Conservation, The American Museum of Natural History

EDUCATION

2013 Ph.D. Environmental Studies, University of California at Santa Cruz, Santa Cruz, California; Dissertation title: Conservation of the endangered Ohlone tiger beetle

2008 M.S. Conservation Biology, San Francisco State University, San Francisco, California; Thesis title: Resource partitioning between two species of tiger beetle, *graduation speaker*

2004 B.A. in Biology with specialization in Ecology and Conservation Biology, Boston University, Boston, Massachusetts, College of Arts and Sciences. *Summa Cum Laude with distinction, Phi Beta Kappa, graduation speaker*

2002 Semester Abroad: Tropical Ecology, Universidad de San Francisco, Cumbaya, Ecuador

PEER REVIEWED PUBLICATIONS (* denotes mentored undergraduate)

Tershy B., Harrison S., Borker A., Sinervo B., **Cornelisse T.**, Li C., Spatz D., Croll D., and E. Zavaleta. 2016. *Biodiversity*. In H. Mooney and E. Zavaleta (Eds). *Ecosystems of California* (pp. 187-212) University of California Press, Oakland, CA

Jedlicka J.A., Letourneau D.K., and **T.M. Cornelisse**. 2014. Establishing songbird nest boxes increased avian insectivores and reduced herbivorous arthropods in a Californian vineyard. *Conservation Evidence* 11: 34-38

Cornelisse, T.M. 2013. Conserving extirpated sites: using habitat quality to manage unoccupied patches for metapopulation persistence. *Biodiversity and Conservation* 22(13): 3171-3184

Cornelisse, T.M., Bennett, M.K. *, and D.K. Letourneau. 2013. The implications of habitat management on the population viability of the endangered Ohlone tiger beetle (*Cicindela ohlone*) metapopulation. PLoS ONE 8(8): e71005. DOI:10.1371/journal.pone.0071005

Cornelisse, T.M. and T.P. Duane. 2013. Effects of knowledge of an endangered species on recreationists' attitudes and stated behaviors and the significance of management compliance for Ohlone Tiger Beetle conservation. Conservation Biology 27(6): 1449-1457

Cornelisse, T.M., Vasey, M.C., Holl, K.D., and D.K. Letourneau. 2013. Artificial bare patches increase habitat for the endangered Ohlone tiger beetle (*Cicindela ohlone*). Journal of Insect Conservation 17(1): 17-22

Cornelisse, T.M. and J.E. Hafernik. 2009. Effects of soil characteristics and human disturbance on tiger beetle oviposition. Ecological Entomology 34(4): 495-503

Holl, K.D., A. L. Concilio, **T. M. Cornelisse**, G. T. Eshete, B. G. Ferguson, S. M. Langridge, J. L. Reid, D. M. Schweizer, J. A. Torres-Ortega, and M. C. Vasey. 2009. *New Models for Ecosystem Dynamics and Restoration*. Richard J. Hobbs and Katharine N. Suding, editors. 2009. Restoration Ecology 17(4): 561

Rosengaus, R.B., **Cornelisse, T.M.**, Guschanski, K., and J.F.A. Traniello. 2007. Inducible immune proteins in the dampwood termite *Zootermopsis angusticollis*. Naturwissenschaften 94(1): 25-33

PEER-REVIEWED EDUCATIONAL MATERIALS

Cornelisse, T.M., Weckel, M., and A. Collins. 2015. Community Buzz: Conservation of native bees in urban areas. 2015. Case Study-Exercise for Network of Conservation Educators and Practitioners, American Museum of Natural History. Available at: <http://ncep.amnh.org>.

Cornelisse, T.M. and E. Betley, editors, Lessons in Conservation January 2015, Network of Conservation Educators and Practitioners, American Museum of Natural History, <http://ncep.amnh.org/linc>

Gazit, N. and **T. Cornelisse**. 2014. Introduction to Earth's Climate System. Presentation for Network of Conservation Educators and Practitioners, American Museum of Natural History. Available at: <http://ncep.amnh.org>.

Gazit, N. and **T. Cornelisse**. 2014. Anthropogenic Climate Change. Presentation for Network of Conservation Educators and Practitioners, American Museum of Natural History. Available at: <http://ncep.amnh.org>.

PROFESSIONAL PRESENTATIONS (* denotes mentored undergraduate)

Cornelisse, T.M. and J. Sagasta*. Don't squish that bug! The effect of conservation education on children's knowledge, attitude, and behaviors toward insects. North American Congress for Conservation Biology, Madison, Wisconsin, July 2016

Douglas K., Porzecanski A.L., Landrigan K., **Cornelisse T.**, Gazit N., and E. Sterling. Lessons in conservation: teaching and training materials for capacity development in conservation. International Congress of Conservation Biology, Montpellier, France, August 2015

Cornelisse, T.M. Conserving extirpated sites: using habitat quality to manage unoccupied patches for metapopulation persistence. Ecological Society of America, Sacramento, California, August 2014

Douglas K., K. Landrigan, A. Bravo, **T. Cornelisse**, N. Gazit, A.L. Porzecanski, and E. Sterling, Conservation Teaching and Learning Studios: A New Approach to Building Capacity in Conservation Over the last 10 years. North American Congress for Conservation Biology, Missoula, Montana, July 2014

Cornelisse, T.M. Conserving extirpated sites for metapopulation persistence using species habitat requirements. North American Congress for Conservation Biology, Missoula, Montana, July 2014

Cornelisse, T.M. and T.P. Duane. Have you heard of the Ohlone tiger beetle? How knowledge affects attitudes and behaviors towards an endangered species. Ecological Society of America, Portland, Oregon, August 2012

Cornelisse, T.M. and T.P. Duane. Have you heard of the Ohlone tiger beetle? How knowledge affects attitudes and behaviors towards an endangered species. North American Congress for Conservation Biology, Oakland, California, July 2012

Cornelisse, T.M., Vasey, M.C., Holl, K.D., and D.K. Letourneau. Artificial bare patches increase habitat for the endangered Ohlone tiger beetle (*Cicindela ohlone*). Poster Presentation, International Congress of Conservation Biology, Auckland, New Zealand, December 2011

Cornelisse, T.M. Effects of habitat quality and metapopulation factors on the status of the Ohlone tiger beetle (*Cicindela ohlone*). Bay Area Conservation Biology Symposium, Berkeley, California, February 2011

Cornelisse, T.M., Vasey, M.C., Holl, K.H., Arnold, R.A., and D.K. Letourneau. Adaptive management for the endangered Ohlone tiger beetle (*Cicindela ohlone*). Entomological Society of America Annual Meeting, San Diego, California, December 2010

Cornelisse, T.M. Factors affecting microhabitat selection by tiger beetles *Cicindela hirticollis* and *C. oregona*. Association for the Advancement of Science Pacific Division (AAAS), Waimea, Hawai'i, June 2008

TEACHING AND MENTORING EXPERIENCE

- 2015-present Canisius College courses taught
Graduate (online): Animal Behavior and Conservation
Undergraduate: Animal Behavior, Conservation Behavior, Recreation Ecology, Recreation Ecology Lab, Urban Ecology, and Urban Ecology Lab, Tropical Ecology
- 2015-present Canisius Earning Excellence Program research project advisor
- 2015-present Thesis advisor, Canisius College Honors Program
- 2014-2015 Instructor, **Conservation Science**, Youth Initiatives, American Museum of Natural History
- 2014 Supervisor, Teaching and Learning Master's Internship, American Museum of Natural History
- 2012-2013 Mentor and Statistics Tutor, San Lorenzo Valley High School, Felton, California
- 2010-2012 NSF GK-12 Fellow, Santa Cruz-Watsonville Inquiry-Based Learning in Environmental Sciences. Mentored student science projects; created and led inquiry-based lessons in **Invertebrate Biology, Insect Conservation, Conservation Biology, Sustainability, and Environmental Science** (publications available at: scwibles.ucsc.edu/SCWIBLESModules.html)
- 2010-2012 Advisor of undergraduate interns and senior thesis student, Department of Environmental Studies, University of California Santa Cruz
- 2009 Discussion Instructor and Teaching Assistant, **Ecology and Society**, University of California Santa Cruz, directly taught two sections of 35 students each
- 2009 Discussion Instructor and Teaching Assistant, **Physical and Chemical Environment**, University of California Santa Cruz, directly taught two sections of 35 students each
- 2005 Laboratory Instructor and Teaching Assistant, **Introductory Biology**, San Francisco State University, directly taught two laboratory sections of 30 students
- 2005 Laboratory Instructor and Teaching Assistant, **Human Biology**, San Francisco State University, directly taught two laboratory sections of 35 students each

PROFESSIONAL EXPERIENCE

- 2012-2013 Biological research consultant, California coastal prairie management, City of Santa Cruz Parks and Recreation

- 2012 Consulting Scientist, Isopod: The Roly Poly Science Game for iPad
www.xylemandphloem.net/
- 2009-2011 Consulting scientist, Santa Cruz County Conservation Blueprint
- 2009-2013 Biological research consultant, Ohlone tiger beetle (*Cicindela ohlone*) Habitat Conservation Plan, University of California Santa Cruz
- 2009 Outreach Specialist, the Center for Biological Diversity, San Francisco, California
- 2006-2008 Curator, Entomology Museum, San Francisco State University
- 2004-2005 Student Conservation Association/Bureau of Land Management Intern, Desert Restoration Corps
- 2004 Education Specialist, Zoo New England, Franklin Park Zoo, Boston, Massachusetts
- 2000-2003 Lab and Field assistant, Forest and soil biogeochemistry lab, Department of Biology, Boston University, Advisor: Dr. Adrien Finzi

INVITED TALKS, PANELS, and GUEST LECTURES

Panelist, Think locally, act locally: Needs, opportunities, and challenges for conservation scientists to engage in local policy. Conservation North American Congress for Conservation Biology, Madison, Wisconsin, July 2016

Linking knowledge, attitudes, and behaviors: A case study of mountain bikers in endangered species habitat. Ecotourism Symposium, Institute for Human and Animal Relations, Canisius College, January 2015

Conservation of the endangered Ohlone tiger beetle. Center for Biodiversity and Conservation, American Museum of Natural History, February 2014

Managing recreation for endangered species conservation: how knowledge affects recreationists' attitude and stated behaviors, and the impact for Ohlone tiger beetle conservation. Environmental Studies Department, San Jose State University, 2012

Guest Lectures:

Decreased disturbance, encroaching grasses, and high-speed bikes: will Ohlone tiger beetles persist?, Scotts Valley and San Lorenzo Valley High Schools, 2013

Population viability analysis, San Francisco State University, 2013

Insect conservation, University of California Santa Cruz, 2011-2013

Tropical rainforest conservation, San Francisco State University, 2008

ORGANIZED WORKSHOPS

Organizer and co-presenter, Making your work matter: stakeholder engagement in conservation. Student Conference on Conservation Science, American Museum of Natural History, New York, NY, October 2014

Organizer and co-leader, NCEP Conservation Teaching and Learning Studio, American Museum of Natural History, New York, NY, June 2014

Organizer and presenter, Ohlone Tiger Beetle Recovery Workshop. Santa Cruz, California, April 2013

Co-organizer and presenter, Art in Science, Expanding Your Horizons in Math and Science for middle school girls, Berkeley, California, March 2012

Co-organizer and breakout session lead, How Filmmakers and Conservationists Connect People, Nature, and Climate Workshop. North American Congress for Conservation Biology, Oakland, California, July 2012

Organizer and presenter, Ohlone Tiger Beetle Recovery Workshop, Santa Cruz, California, January 2010

Co-organizer, Light Brown Apple Moth Symposium, Entomological Society of America Annual Meeting, San Diego, California, December 2010

ACADEMIC SERVICE

2016-present Member, Canisius College IACUC

2016-present Canisius College Library Liason

2015-2016 Member, Buffalo Opportunities, Academic Affairs Affinity Group

2014-2015 Organizer, BioLunch Seminar Series, American Museum of Natural History

2010-2012 Organizer, Environmental Studies Seminar Series

2009-2011 Co-chair, Environmental Studies Steering Committee

2006-2008 President, Graduate Student Council in Biology

COMMUNITY SERVICE

2016-present Board member, Pollinator Conservation Association, Buffalo, New York

2016 Judge, Western New York Science and Engineering Fair

2016 Presenter, North Tonawanda Young Scientists Convention

2014-2015 Judge, Biodiversity Specialist, Young Naturalist Award, American Museum of Natural History

2014-2015 Judge, New York City Science and Engineering Fair, preliminaries and finals

2011-2013 Judge, Santa Cruz County Science Fair

PROFESSIONAL DEVELOPMENT

2016 Google for Education Summit at Canisius College

2015 Canisius College Online Course Development Workshop

2014 Scientific Teaching Workshop, American Museum of Natural History
2012 Short course on Beetle Diversity and Systematics, Organization for Tropical Studies, La Selva, Costa Rica

FELLOWSHIPS, HONORS, AND AWARDS

2012-2013 Eugene Cota Robles Diversity Fellowship, UC Santa Cruz (\$21,000)
2011-2012 NSF GK-12 Graduate Fellowship (\$30,000)
2011-2012 Robert and Patricia Switzer Environmental Leadership Fellowship (\$15,000)
2010-2011 NSF GK-12 Graduate Fellowship (\$30,000)
2009-2010 David Gaines Environmental Studies Award (\$400)
2008-2010 Eugene Cota Robles Diversity Fellowship, UC Santa Cruz (\$21,000)
2008-2010 Environmental Studies Department Research Grant (\$1,000 per year)
2007-2008 Achievement Rewards for College Scientists (ARCS) Scholar (\$10,000)
2006-2007 Achievement Rewards for College Scientists (ARCS) Scholar (\$10,000)
2006-2007 San Francisco State University Alumni of the Year Scholar (\$2,000)
2005-2006 San Francisco State University Biology Department IRA research grant (\$700)
May 2008 College Hood Award, College of Science and Engineering, San Francisco State
May 2008 Distinguished Graduate Student Award, San Francisco State University

PROFESSIONAL AND HONOR SOCIETIES

2011-present Ecological Society of America
2005-present Society of Conservation Biology
2003-present Phi Beta Kappa

Ad hoc reviewer for: Biological Conservation, Journal of Insect Conservation, Local Environment, PLoS Biology