2019 Curriculum vitae

NAME: Laura Catherine Harrington
DEPARTMENT/UNIT: Entomology
TITLE: Professor
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BACKGROUND

EDUCATION:
2001 - Post-doctoral - University of California, Davis, CA
1999 - Ph.D. - University of Massachusetts, Amherst, MA
1993 - M.S. - North Carolina State University, Raleigh, NC
1990 - B.S. - St. Lawrence University, Canton, NY

PROFESSIONAL BIO, OVERVIEW AND OBJECTIVES
Dr. Harrington is a Professor in the Department of Entomology at Cornell University and Director of the Northeast Regional Center for Excellence in Vector Borne Diseases. She earned her MS from North Carolina State University and then worked in industry as an agricultural biologist developing bio-rational pesticides for BASF. She went on to complete her PhD in Entomology with a focus on mosquito biology and public health from the University of Massachusetts and she completed her postdoctoral training at the University of California at Davis. Professor Harrington's research focuses on the biology, ecology and behavior of mosquitoes that transmit human diseases. Her current projects address feeding and mating behavior of the mosquito vectors of dengue, Zika and chikungunya viruses. She also investigates acoustic mating behavior and flight range of disease vectors, human-mosquito interactions, and the role of climate change and globalization on emerging vector borne diseases. She is an award-winning mentor and teacher, offering courses at Cornell University in the fields of vector biology and global health. Harrington has published over 80 peer reviewed articles and 3 book chapters. Her research has been supported by continuous funding from the NIH/NIAID, Gates foundation, USDA and CDC. More information is available on her website http://blogs.cornell.edu/harrington/ and http://neregionalvectorcenter.com/.

ACADEMIC RANK:
Professor: 2013 to present

PRIMARY DEPARTMENTAL / Unit PROGRAM AREA: Medical entomology, 65% research and 35% teaching

AREAS OF EXPERTISE: Medical entomology, vector biology, global health, mosquito ecology and behavior, epidemiology, disease evolution and ecology

PROFESSIONAL EXPERIENCE

2013- Present - Professor, Department of Entomology, Cornell University, New York

2017- Present - Director, Northeast Regional Center for Excellence in Vector-Borne Diseases

2013- 2016 - Chair, Department of Entomology, Cornell University, New York

2007- 2012 - Associate Professor, Department of Entomology, Cornell University, New York

2001 -2006 - Assistant Professor, Department of Entomology, Cornell University, New York

1999- 2001 - Post-doctoral researcher, Mosquito Research Laboratory, Department of Entomology, University of California, Davis

1995-1999 - Research Assistant, Department of Entomology, University of Massachusetts, Amherst

1994-1995 - Agricultural Biologist, BASF Corporation, Research Triangle Park, North Carolina

1993-1994 - Field Research Intern, BASF Corporation, Research Triangle Park, North Carolina

1990-1993 - Research Assistant, Department of Entomology, North Carolina State University

1987-1989 Research Assistant, Department of Biology, St. Lawrence University, New York

SABBATICALS AND STUDY LEAVES

2010 Arthropod-borne Infectious Diseases Research Laboratory. Colorado State University (Ken Olson): Vector competence for US strains of the Asian tiger mosquito (*Aedes albopictus*) for Chikungunya virus (LR-OPY strain); and Venereal Transmission of Dengue-2 virus by *Aedes aegypti* males.

HONORS AND AWARDS

Stephen H. Weiss Presidential Fellow, for outstanding contributions to undergraduate education at Cornell. 2016-present

North Carolina State University Outstanding Alumna Award 2015

Eastern Branch ESA Distinguished Achievement Award in Teaching 2012, 2013

Provosts Award for Distinguished Scholarship, Cornell University 2010

Cornell University Advance Program Professional Development Award 2010

Cornell Center for Sustainable Future Faculty Fellow 2009 to present

International Programs Travel Award 2008

Faculty Fellows in Service Grant Award, Malaria Interventions in Ghana 2007

Best Paper Award at the International Conference in Modeling Health Advances 2007

CALS Excellence in Mentoring Undergraduate Students in Research Award, April 2006

Gordon Conference Invited Speaker, June 2006

GRANT SUPPORT

Active Grants and Contracts:

Harrington (PI), Fonseca Co-PI (12/31/2018-07/31/2021)
CDC- Supplemental grant

Risk and Ecological Assessment for Management of the Asian longhorned Tick, Haemaphysalis longicornis, in the Northeastern US. This research will fill essential knowledge gaps about this potentially important new disease vector. We will 1) understand the distribution and regional expansion of H. longicornis using optimized surveillance approaches; 2) have identified important aspects of its ecology including host feeding preferences, seasonality, overwintering biology and environmental population drivers; 3) acquired critical knowledge of its vector potential for new and emerging human pathogens to assess public health risk.

Harrington (PI) (6/01/2019-05/31/2022)
Department of Defense DWFP - $900,000 includes IDC

Novel Evaluation of control and prevention strategies for ticks
This project aims to evaluate integrated strategies for controlling and repelling I. scapularis, A. americanum and H. longicornis ticks.

Harrington (PI) (12/31/2016-07/31/2021)
U01CK000509
CDC Center of Excellence in Vector-Borne Diseases
Together with a team of highly skilled team of experts across the region, we will form a Northeast Regional Center of Excellence in Vector Borne Diseases to address the most pressing educational and applied research needs of our time. The Center will offer multiple educational opportunities to train the next cadre of medical entomologists and public health practitioners to address our current and future challenges.

Harrington/Wolfner (Co-PIs) (05/31/2017-05/30/2022)
NIH R01AI095491
"New Targets for Reproductive Control of Mosquito Vectors"
The goal of this study is to directly identify and determine the function of seminal fluid proteins produced in male mosquitoes and transferred to females during mating. We focus on targets that could be manipulated as a novel means of female mosquito reproductive/behavioral control.

Harrington (co-PI), Munoz PI (Columbia Univ) 1/31/2019-07/31/2021
National Oceanic and Atmospheric Administration
"The Development of Climate-Informed Decision-Support Tools for the Prevention and Control of Aedes-Borne Diseases in the Us and Transboundary Regions"

The development of climate-informed decision-support tools for the prevention and control of *Aedes*-borne diseases in the US and transboundary regions. We will co-develop a monitoring and forecasting system for environmental suitability of transmission of *Aedes*-borne diseases for the US and the Caribbean, using innovative state-of-the-art ento-epidemiological models, climate observations, and seasonal and sub-seasonal forecasts.

Harrington (PI) (10/01/2017-9/30/2020)
NIFA Hatch -NYC 139443
2017-18-160 On the Edge of Invasion: Mapping Distribution and Climatic Factors for the Asian Tiger Mosquito in New York State

Harrington (PI) (10/01/2017-09/30/2019)
USDA NIFA- Multistate Federal 2017-18-225
Capacity Funds
NE1443- Biology, Ecology & Management of Emerging Disease Vectors "Climate Change, Adaptation and range expansion of the Asian tiger mosquito in New York State"
Harrington (co-investigator), Catteruccia (PI) 04/01/2016-03/31/2021
NIH 1R01
"Targeting Steroid Hormone Signaling in *Anopheles* Mosquitoes for Malaria Control"
We will conduct experiments to understand the impact of 20E depletion on male acoustic signaling, female response and male mating success.

Past Grants and Contracts (past 5 years):

Harrington (Collaborator), Cator (PI) 01/01/2016-2/28/2019
NIH R01AI118593
"Acoustic Mating Signals in Mosquitoes"
The goal of this project is to fully assess the fitness benefit of acoustic signaling in *Ae. aegypti* and *Ae. albopictus.*

Harrington (Co-investigator), Radcliffe (PI) **(**06/01/2015-05/31/2018)
Morrison Animal Foundation D15ZO-058
"Tabanid fly host feeding and transmission patterns drive trypanosome infection in endangered Javan rhinoceroses in Ujung Kulon National Park Indonesia."
My role is to develop methods to collect Trypanosome vectors and determine feeding and infection patterns as they relate to infection of the endangered Javan rhino.

Harrington (PI) **(**05/01/2015-03/31/2017)
Bill and Melinda Gates Foundation
"Novel acoustic surveillance techniques for male and female mosquitoes."
In this project, we will utilize our knowledge of mosquito attraction to acoustic signals and other sensory modalities to develop the world's first low cost and efficient trap for mosquito disease vectors across the sexes and a range of physiological states.

Harrington/Wolfner (Co-PIs) **(**10/01/2014-09/30/2017)

NYC-139487, USDA NIFA – Hatch Federal Capacity
Funds
"Taming the Tiger: Using Males to Control the Invasive Asian tiger mosquito in New York State"
The goal of this project is to understand strategies to use males to control the invasive Asian tiger mosquito in New York State

Harrington/Wolfner (Co-PIs) (06/01/2011-05/31/2017)
NIH 1R01AI095491
"New Targets for Reproductive Control of Mosquito Vectors"
The goal of this study is to directly identify and determine the function of seminal fluid proteins produced in male mosquitoes and transferred to females during mating. We focus on targets that could be manipulated as a novel means of female mosquito reproductive/behavioral control.

TEACHING AND ADVISING RESPONSIBILITIES

Courses Taught:
Undergraduate Courses

ENTOM 4520 Introduction to Disease Vectors Lecture and Lab, every fall Fall (2018-present)
ENTOM 3520 Medical and Veterinary Entomology Lecture, Fall (2002-2012, 2017), 4 cr.
ENTOM 3530 Advanced Laboratory in Medical and Veterinary Entomology, Even fall (except 2010, 2014-2016), 1 cr.
ENTOM 2100/BIO&SOC2100 Plagues and People. Odd Fall (2003-2011, 2019) Even Fall (2014) Spring (2016). 2-3 cr.
NS 2060 Introduction to Global Health 3 cr. Malaria Module, Spring 2007- 2009, 2011-2016, 2018-2019 (WASH and Lymphatic filariasis)
NTRES 4940 Conservation with Communities for One Health, Spring 2016, lectures on vector biology
ENTOM 4100 &4101 Malaria Interventions in Ghana, Fall and Spring 2 cr., 2007 to 2011
ENTOM 4110 Health Programs in Honduras, Spring 2008 2 cr.

Graduate Courses
ENTOM 6530 Control of Disease Vectors Seminar, every Spring (2019-present) 1 cr
ENTOM 6520: Malaria Biology and Control, every Spring (2019-present) 2 cr
ENTOM 6900 Ecology and Evolution of Infectious Diseases, 1 cr (2012 to 2013) co-taught with EEID faculty)
ENTOM 767 Special Topics in Entomology. Fall 2004, Spring 2005, 1 cr. (co-taught with Ann Hajek), Guest lectures each year 2007 to present (excluding 2010)

Field Courses
The Biology of Disease Vectors. 2005. June 11-27, Thailand. "Larval competition and biology" and "Mosquito mating behavior". Sponsored by NSF, Colorado State University and Mahidol University, Bangkok, Thailand.
Global Health Summer field Course. 2011. June 12-30. Moshi, Tanzania.

Undergraduates mentored in Honors and Independent research past 5 years (28 total):

Grant Fabrizio (Global and Public Health Science ’19) A guide to egg development in the *Aedes* mosquito.

Annie Geiger (Biological Sciences ‘19) Nationwide NEVBD Tick surveillance and control survey. (co-mentored with Emily Mader)

Anna Nesgros (Honors, Biology major ’19) Patient-physician communication and Lyme disease. (co-mentored with Emily Mader)

Meghan Benedict (Interdisciplinary major ’19) NEVBD Tick repellent safety guide (co-mentored with Emily Mader)

Ella Jacobs (Entomology major ’19) Role of dopamine, acoustics and scent in *Aedes* mosquito mating behavior.

Adam Hatala (Biology major ‘17) Influence of male seminal fluid proteins of *Aedes* female mosquito feeding behavior.

Daniela Schmulevich (Biology and Society major, Honors ’13) Bioterror Threats Communicated: the Exacerbation of Fear by the Media and its Subsequent Effects

Rebecca Johnson (Entomology/Biology Double major, Presidential Research Scholar ’12) Mosquito vectors of Eastern Equine Encephalitis virus in Maine.

Ayesha Ahsan (Biology and Society major, Honors ’12) A Problem-Solving Approach to Public Health Risks during the Hajj.

Other Relevant Teaching and Advising Activities and Accomplishments (past 5 years):

Cornell Freshman Biology Advisor, 2018-present
Cornell Biology Scholars Program (BSP) laboratory tour 2018. Mosquito biology research

Cornell Teaching Partnership Program. Mentoring junior faculty in teaching. 2017- 2019

Schwartz Research Fund Application reviewer, 2017

Cornell University New Faculty Orientation, 2017. Research in the Life Sciences Session, led with Jesse Goldberg

Cornell Veterinary Medicine Infectious Disease Forum, 2017, “Once upon a midnight dreary, quoth the Raven “sickness evermore”

Engaged Cornell Teaching Grant and Course, “Conservation with Communities for One Health” Teaching team member 2016, 2017, 2018.

Biology Scholars Program for historically underrepresented students in biology. Freshman seminar presenter /lab tour and discussion leader. 2012, 2013, 2016

CIRTL Panel presentation 2014. "What I Wish I'd known about Mentoring before Becoming a Faculty Member"

Cornell Global Health Student Council Ted-Talk Event. 2013. Ted talk presenter "Global research on disease vectors and career opportunities"

CIRTLCast on "Mentoring Graduate Students and Postdocs." 2012. A national seminar on key tips for future faculty. http://www.cirtl.net/files/Nov_30_CIRTLCast_2012Flier.pdf

EXTENSION/OUTREACH RESPONSIBILITIES: (No formal extension responsibilities)

Extension Professionals Supervised
Emily Mader (2017-present)
Renee Anderson (2003-2006)

Program Work Team(s)/Program Councils, Administrative Leadership
Chair, New York State Community IPM committee, 2005 to 2010.
Cornell Cooperative Extension Trending topics co-chair, "Ticks" September 2018

Recent Seminars for Lay Audiences
"Tick and Mosquito borne disease in New York State" Kendall at Ithaca, June 2016
"The Science of Battling a Mosquito-borne Disease" Barbara McLintock Symposium, Cornell, May 2016
"Influenza: A case study in pandemics past and present" Cornell Institute for Biology Teachers, October 2011
"The Plight of African Nations" Cortland Rotary, January 2013
"Ticks and Lyme Disease" Cortland Rotary, May 2014
"Tick borne disease" Cortland Chapter of Cornell Women's Alumni Association, May 2015.
"Zika virus- what you need to know" Kendall Senior Center, Ithaca, June 2015.

Extension/Outreach Workshops, Webinars, Field Days, and Conferences
2018 CCE state wide tick planning meeting, Onondaga CCE, August 2018
2018 NEVBD Integrated Tick Management Webinar, developed into a Pesticide CE credit for tick management webinar offered through Cornell's PMEP, http://neregionalvectorcenter.com/itm-webinar August 2018
2018 NEVBD Discussions on the Invasive Asian Longhorned Tick, *Haemaphysalis longicornis*, 300 attendees joined from US and international locations, http://neregionalvectorcenter.com/h-longicornis-webinar November 2018
2018 CCE Executive leadership conference, NEVB research and collaborations, June 2018
2017 IPM toolbox webinar, NYS IPM Program, update on NEVBD
2016 New York State DEC recertification course seminar, *Aede*s mosquito vectors
2016 North America Pest Control Association Webinar on Zika Virus
2012-13 Hosted lab tours with Cornell Freshman Biology Scholars

Other Relevant Extension/Outreach Activities, Accomplishments
Published fact sheet "Intruder Alert: Asian Longhorned tick, what you need to know about the invasive tick *Haemaphysalis longicornis*" (2018)

Reviewed and provided advice on NYS IPM Bti factsheet for mosquitoes (2018)
Answering phone calls/e-mail requests for information from citizens (annually, 10 individual responses in 2017)

GRADUATE FIELD MEMBERSHIPS: Entomology, Ecology and Evolutionary Biology, Comparative Biomedical Sciences

GRADUATE GROUP MEMBERSHIPS: Infection and Pathobiology, Ecology and Evolution of Infections and Disease, Virology

UNDERGRADUATE MAJOR MEMBERSHIPS and ADVISING: Entomology, Biology and Society, Biology

REPRESENTATIVE PROFESSIONAL ACTIVITIES
PROFESSIONAL SOCIETIES:
Entomological Society of America (1990 to present)
American Society for Tropical Medicine and Hygiene (1998 to present)
American Committee on Arthropod-Borne Viruses (ACAV) (2012 to present)
American Committee of Medical Entomology (ACME) (2001 to present)

EDITORIAL BOARDS:
Subject editor, Journal of Medical Entomology (2008 to 2013), Guest Editor PLOS Neglected Tropical Diseases 2012.

COMMITTEE ASSIGNMENTS (past 5 years):
International/National:
ASTMH Pre-meeting course organizer, "Vector Biology for the Clinician" 2018
ACME Councilor, 2016 to present
ACME pre-meeting course organizer 2018

University:
Associate Professor Orientation panel co-leader, "Keeping Your Research on Track Post Tenure" (2018)
Animal Science Department Chair Search Committee (2018-present)
Annual Summer Undergraduate Workshop on Research Ethics and Responsible Conduct of Research (RCR) Panelist (2018)
Internal Advisory Committee for the Cornell MPH program (2018-present)
Schwartz Research Fund Application Reviewer (2017)
Cornell Teaching Partnership Program (teaching mentor, 2017)
University Courses Advisory Board (2013-2016)
Adhoc tenure and promotion review committee (2013- 2014)
Cornell CIRTL (NSF Center for the Integration of Research, Teaching, and Learning (CIRTL) Steering committee (2011-2016)
CU-CIRTL Advisory Board (2012- 2016)

Department:

2017-present, Vector Biology Search Committee
2017- 2018 Comstock Hall Addition Working Group
2013 to 2016, Department Chair
2012 to 2013, Faculty mentoring committee
2011 to 2013, Awards Committee (chair 2012-13)

REPRESENTATIVE PROFESSIONAL CONTRIBUTIONS

CONFERENCES/WORKSHOPS/IN-SERVICE PARTICIPATION
NEVBD Boot Camp May 2018, 2019
NYS Tick Borne Disease Working group, 2017-present
NESCent Catalysis Meeting "Ecological Immunology Applied to Vector Biology and Vector-Borne Disease." August 2015.
NYS Tick-Borne Disease Research Workshop. March 2015.
Inside Cornell: Health, Climate and Mosquito-Borne Disease, May 2012. (http://www.cornell.edu/video/?videoID=2109)
NIH Vector Biology Study Section Permanent Member 2012-2016.

INVITED PRESENTATIONS (past 3 years)

Updates from the Northeast Regional Center for Excellence in Vector-Borne Diseases. NACCHO Vector Summit. Pittsburg, PA. April 2019.

Tick Control and Surveillance Programs in the United States.* American Mosquito Control Association Meeting. Orlando FL. February 2019. (*with Emily Mader and Annie Geiger)

Public health entomology: An academic program to prepare the next generation of practitioners. MUVE Section Symposium: Training the Next Generation of Vector Biologists. ESA Vancouver, BC. Nov 14, 2018.

*Northeast CoE: Landscape and climate determinants of *Ae. albopictus* abundance at the northern limits of the species' range, United States American Committee of Medical Entomology (ACME) Symposium II: The CDC Regional Centers of Excellence for Vector-Borne Disease. ASTMH Annual meeting, New Orleans, LA. Oct 28-Nov 1, 2018. (*with Kache P.)

The state of public health entomology in the U.S. – where are we and where do we need to be? SYMPOSIUM 9: CHALLENGES OF VECTOR CONTROL IN THE USA. 48th SOVE, Yosemite, CA, October 7-11, 2018.

Blood feeding and mating behavior of the arbovirus vectors *Aedes aegypti* and *Ae. albopictus*. Women Aggies in Entomology invited speaker. Department of Entomology, Texas A&M. College Station Texas, October 2, 2018.

Northeast Center of Excellence in VBD: The Northeast Regional Center's Applied Research Program. SYMPOSIUM 6: CDC REGIONAL CENTERS OF EXCELLENCECommunity IPM

Conference. Keynote Address "Vectorborne Infections and IPM on a Shrinking Planet" White Plains, NY, August 2018.

Mosquito mating biology and the NEVBD. Harvard University. Chan School of Public Health. April 2018.

Joint International Tropical Medicine Meeting (JITTM). "Reproductive biology and mating behavior of the dengue vector, *Aedes aegypti*: potential targets for vector control". Bangkok, Thailand. December 2017.

Gordon Conference on Fertilization and the Activation of Development. "*Aedes* mosquito sperm and control of reproduction of disease vectors". Holderness School, NH. July 16-21, 2017.

Royal Society. London, England. "Towards ecologically-realistic genetic mosquito population control strategies for disease elimination". Keynote lecture: "Aedes aegypti mating biology and behavior" Chicheley Hall, UK. April 3-4, 2017.

Australian Institute of Tropical Medicine and Health. "Field ecology, behavior and novel targets for controlling dengue and zika vectors *Aedes aegypti* and *Ae. albopictus*." Cairns, Australia. February 2017.

Queensland Institute for Medical Research Berghofer. "Ecology of *Aedes* mosquitoes" Brisbane, Australia. January 2017.

VectorBiTE RCN: Vector Behavior in Transmission Ecology Research Coordination Network, session leader "How do age and stage-specific life history and behavioral traits impact transmission dynamics?" March 2016.

University of Georgia, Department of Infectious Diseases, College of Veterinary Medicine. "Biology and behavior of the Zika vector" March 2016.

RESOURCE FOR MEDIA (past 3 years)
2018

- Interview for "The Wire" on recent publication on mosquito egg shell development. By Sukanya Charuchandra https://thewire.in/the-sciences/scientists-identify-protein-that-mosquitoes-need-to-lay-viable-eggs
- Ezra Magazine. Mosquito research. Spring 2018 feature.
- Mosquito-to-mosquito infections keep dengue circulating, Cornell Chronicle, Krishna Ramanujan, October 2018 http://news.cornell.edu/stories/2018/10/mosquito-mosquito-infections-keep-dengue-circulating
- Malaria-related blood transfusion challenges and the impact of Malaria on human health. Live Interview for ISBT education e-learning platform, Toronto, CA June 2018.
- Cornell expert: Climate change, global travel key to tick, mosquito diseases in New York. Journal News, David Robinson, August 2018. https://www.lohud.com/story/news/health/2018/08/08/longhorn-asian-ticks-new-york-cornell-stfs-zika-climate-change-global-travel-mosquito-diseases/926985002/

- Zika Likes it Warmer than Dengue. News and Opinion for *The Scientist.* Anna Azvolinsky https://www.the-scientist.com/news-opinion/zika-likes-it-warmer-than-dengue--study-64645
- Vector Borne Diseases Radio interview. Knowledge @ Wharton. Sirius XM Business Radio.

2017

- Articles from Daniel Gross original story for Mosaic http://www.bbc.com/earth/story/20170424-why-scientists-are-listening-to-insects-wings-flapping and http://www.independent.co.uk/news/long_reads/why-we-need-to-start-listening-to-insects-a7694621.html
- NY times interview with Jonathan Wolfe for New York Today.
- Travel Weekly interview with Jamie Biesiada.
- CALS Magazine feature interview with Jennifer Kelly, Then and Now.
- Newsday interview with Delthia Ricks. Health threat declared in Suffolk from virus-carrying mosquito
- NPR's Goats and Soda Interview blog about the mosquito emoji with Courtney Columbus
- Feature on the Cornell Research Website by Caitlin Hayes. Mosquitoes-the Sex of the Matter.
- Interview with Matt Rocheleau for the Boston Globe. Releasing more mosquitoes might actually curb the number of mosquitoes
- Radio interview with Alan Yu for The Pulse, WHYY Philadelphia.

2016

- Interview- Rachael Rettner, Live Science. "4 Florida Zika Cases Were Likely Contracted in the US, Officials Say" http://www.livescience.com/55594-zika-florida-transmission-cases.html
- Interview- Sribala Subramanian- How New York is Trying to Outsmart the Aedes Mosquito http://thewire.in/70233/mosquito-aegypti-albopictus-sumithrin/ (August 2016)
- Interview – Kelly Servick, Science Magazine. Article on the science behind Oxitec (August 2016)
- Interview and visit to lab- Daniel Gross. Radio story for Mosaic (the magazine of the Wellcome Trust) on the topic of insect recognition. (July 2016)
- Interview- Don Phillips for the Washington Post. Zika and the Olympics https://www.washingtonpost.com/world/the_americas/brazil-says-there-is-almost-zero-risk-of-zika-during-olympics-really/2016/07/05/9f2c49fc-31c0-11e6-ab9d-1da2b0f24f93_story.html (July 2016)
- Interview for ABC News Podcast "Pulse Check, Episode 2: Build a Wall" about mosquito flight and biology. (May 2016)
- Video Interview for local Time Warner Cable News on Zika vectors. (May 2016)
- Interview- Jodi Helmer. AARP magazine. "Don't bug out over latest Zika news" from Cornell media tip sheet http://mediarelations.cornell.edu/2016/05/17/dont-bug-out-over-latest-zika-news/
- Interview- Dean Fosdick. National AP Story on mosquito prevention for homeowners and gardeners (May 2016)

- Resource for Glenn Coin, Syracuse Post Standard on mosquitoes and climate (May 2016)
- Interview and resource for Liz Szabo, USA today "Gulf Coast could be ground zero for Zika" developed mosquito development graphic for the article. http://www.usatoday.com/story/news/2016/05/05/gulf-coast-could-ground-zero-zika/83823758/
- Interview, Doyle Rice, USA Today, "Mosquito forecast: Wet spring could fuel bug boom and Zika cases" http://www.usatoday.com/story/weather/2016/04/20/zika-mosquitoes-weather/82943496/
- Interview Reem Khondakar, Cornell Daily Sun "Zika: A public health and ethical challenge" (April 2016)
- Interview- Roxanne Khamsi. Wired Science. "Blood in a mosquito's belly could reveal how diseases spread" https://www.wired.com/2016/04/blood-mosquitos-belly-reveal-diseases-spread/ (April 2016)
- Interview by Amanda Garris for CALS Magazine spring issue on Rhino Conservation project in Indonesia (March 2016)
- Resource for Buzz Feed's Dan Vergano, Zika (March 2016)
- Interview by Krishna Ramanujan for the Cornell Chronicle (March 2016) http://news.cornell.edu/stories/2016/03/female-gene-changes-post-sex-may-lead-mosquito-controls
- Resource for Mary Brophy Marcus, CBS news, Zika (March 2016)
- Cornell in Washington Briefing, Zika (March 2016) http://www.news.cornell.edu/stories/2016/03/cornell-scientists-brief-press-zika-virus-dc
- interviews by Liz Szabo, USA Today, Zika and *Aedes aegypti* (January-March 2016) http://www.wkyc.com/news/health/experts-dismiss-claims-that-pesticide-not-zika-causes-birth-defects/44797337
  http://nvs24.com/news/world/Bold-Zika-mosquitoes-love-to-hang-with-humans-4562499.html
  Interview and Resource for Susan Milius, Science News on mosquitoes (February 2016) https://www.sciencenews.org/article/efforts-control-mosquitoes-take-new-urgency
- Resource and interviews by Alex Ranken, Yap Films (a BBC affiliate) on Climate, mosquito and disease documentary (February 2016 to present)
- Resource for Brady Dennis, The Washington Post, Zika (February 2016)
- Interview by Erica Cirino, Audobon, (February 2016) https://www.audubon.org/news/can-birds-survive-without-mosquitoes
- Interview by Aryn Baker, African Bureau Chief, Time Magazine (February 2016)
  Television Interview for NBC Nightly News (February 5, 2016)
- Interview by Paul Blake for BBC, Zika and mosquitoes (February 2016)
- Interview by Renee Montagne for NPR (February 2016) http://www.npr.org/2016/02/02/465246337/attention-turns-to-repelling-mosquitos-that-carry-zika-dengue
- Cornell cast. Cornell Vector biologist answers Zika virus FAQs (February 2016) http://www.cornell.edu/video/zika-virus-faqs-laura-harrington
- Interview by Lena Sun, Washington Post, Zika Virus (January 2016)

RESEARCH PUBLICATIONS- JOURNAL ARTICLES (PEER-REVIEWED)

In preparation:

Case E, Shragai T, Morreale SJ, **Harrington LC** and D. Erickson. Low-cost unmanned aerial vehicles (UAVs) for Asian tiger larval habitat surveillance.

In review:
Noble JM*, Degner EC*, Kourkoutis FW** and L.C. Harrington**. In review. "The timing of sperm modification, oviposition, and fertility in the mosquito *Aedes aegypti*". * Equal contributors to this work, **Corresponding authors.

Smith, LB, Chen C, Silva JJ, **Harrington LC** and JG Scott. In review. Fitness costs of individual and combined pyrethroid resistance mechanisms, KDR mutations S989P+V1016G and CYP-mediated detoxification in Aedes aegypti.

In revision:

Shragai T, **Harrington LC**, Alfonso-Parra C and F Avila. In review. Oviposition site attraction of Aedes albopictus to sites with con- and heterospecific larvae during an ongoing invasion in Medellin, Colombia. Submitted to Parasites and Vectors. Accepted with minor revision.

In press:

Published:

81. Aldersley A, Pongsiri A, Bunmee K, Kijchalao U, Chittham, W, Fansiri T, Pathawong N, Qureshi A**, Harrington LC**, Ponlawat A, LJ Cator. 2019. Too "sexy" for the field? Paired measures of laboratory and semi-field performance illustrate how laboratory adaptation can increase the apparent mating fitness of Aedes aegypti transgenic strains. *Parasites and Vectors* 12: 357.

80. League GP, Baxter LL, Wolfner MF, and **LC Harrington**. 2019. Male accessory gland molecules inhibit harmonic convergence in the mosquito *Aedes aegypti.* Current Biology. 29(6): R196-R197.

79. Menda G, Nitzany EI, Shamble PS, Wells A, **Harrington LC**, Miles RN and RR Hoy. 2019. The Long and Short of Hearing in the Mosquito, Aedes aegypti. Current Biology.

78. Sanchez I**, Harrington LC**, Black IV WC and K.E. Olson. 2019. Analysis of salivary glands and saliva from Aedes albopictus and Aedes aegypti infected with chikungunya viruses. Insects. 10(2), 39; doi:10.3390/insects10020039

77. Degner, E., Ahmed-Braimah, Y., Borziak, K., Wolfner, M.F. **Harrington, LC** and Dorus, S**.** 2019. Proteins, transcripts, and genetic architecture of seminal fluid and sperm in the mosquito

Aedes aegypti. Molecular and Cellular Proteomics.
http://www.mcponline.org/content/early/2018/12/14/mcp.RA118.001067/tab-article-info

76. Ledesma NA, Kaufman PE, Xue RD, Leyend C, Macapagald M, Winokur OC and **LC Harrington**. 2019. Entomological and socio-behavioral components of dog heartworm (*Dirofilaria immitis*) prevalence in two Florida communities. Journal of the American Veterinary Medical Association. Vol 254 (1): 93-103.

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