

# GONZALO MARTIN VAZQUEZ-PROKOPEC

Department of Environmental Sciences - Emory University  
400 Dowman Drive, Suite E530  
Atlanta, GA, 30322, USA  
Phone: (404) 727-4217 - Fax: (404) 727- 4448  
Email: gmvazqu@emory.edu  
URL: <http://www.prokopeclab.org/>

## Education

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- Ph.D.**      **University of Buenos Aires**, School of Exact and Natural Sciences, Buenos Aires, Argentina. April 2004 – December 2007.  
Ph.D in Biological Sciences (Ecology). Grade: Outstanding.  
Dissertation title: “Effects of Vector Control Actions Against *Triatoma infestans* Infestation at Multiple Spatial and Temporal Scales in Rural Northwestern Argentina”
- M.Sc.**      **University of Buenos Aires**, School of Exact and Natural Sciences, Buenos Aires, Argentina. March 1996 – August 2003.  
Masters in Biological Sciences (Ecology).  
Thesis title: “Active Dispersal of *Triatoma infestans* in Two Rural Communities of Northwestern Argentina”.

## Employment and Academic Appointments

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### Employment

- 2018-present**    **Associate Professor.** Department of Environmental Sciences, Emory University.
- 2020-present**    **Winship Distinguished Research Professor in Environmental Sciences.**  
Emory University.
- 2012-2018**      **Assistant Professor.** Department of Environmental Sciences, Emory University.
- 2008-2012**      **Postdoctoral Research Associate,** Department of Environmental Studies, Emory University.

### Current Academic Appointments

- 2022-2025**      **Scientific Advisor.** World Health Organization. Strategic Advisory Work of Experts in Immunization (WHO-SAGE). (2022-2025).  
[https://www.who.int/groups/strategic-advisory-group-of-experts-on-immunization/working-groups/dengue\\_2022](https://www.who.int/groups/strategic-advisory-group-of-experts-on-immunization/working-groups/dengue_2022)
- 2022-2024**      **External Advisory Board Member.** “Group Evaluating New Technologies for Vector Control in Mexico, 2022-2024”. CENAPRECE (Centro Nacional para la Prevencion y el Control de Enfermedades), Federal Ministry of Health, Mexico.
- 2017-present**    **Scientific Technical Advisor.** World Health Organization – Regional Office for Latin America (PAHO). External Evaluation Group of New Technologies for *Aedes* spp. Control.
- 2015-present**    **Joint Faculty.** Department of Epidemiology, Rollins School of Public Health. Emory University.

- 2012-present** **Joint Faculty.** Department of Environmental Health, Rollins School of Public Health. Emory University.
- 2012-present** **Faculty Member.** Program in Population Biology, Ecology and Evolution. Laney Graduate School. Emory University.
- 2010-2020** **Guest Researcher.** Centers for Disease Control and Prevention (CDC), Division of Parasitic Diseases, Entomology Branch, Atlanta, GA.

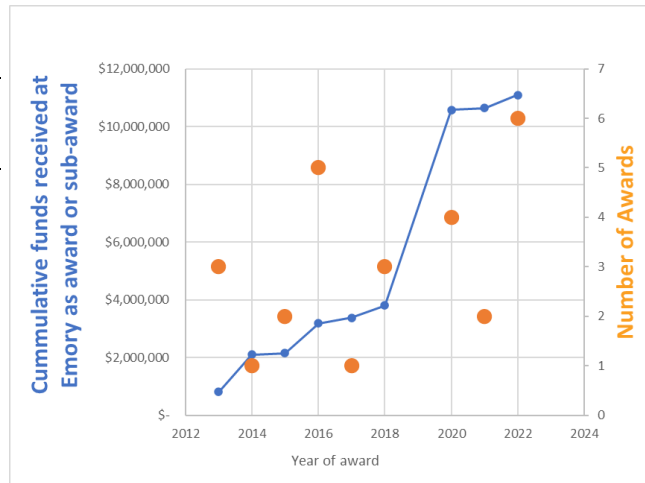
**Past Academic Appointments**

- 2016-2017** **Chair.** American Committee of Medical Entomology, American Society of Tropical Medicine and Hygiene (ASTMH). The ASTMH is the largest scientific society about tropical diseases, and ACME centralizes activities advancing the field of Medical Entomology.
- 2015-2018** **Councilor.** American Committee of Medical Entomology, American Society of Tropical Medicine and Hygiene
- 2010-2016** **Member.** Research and Policy for Infectious Diseases Dynamics, Fogarty International Center, National Institutes of Health, Bethesda, MD.
- 2011-2012** **Director of Research Projects.** Department of Environmental Studies, Emory University.
- 2009-2012** **Adjunct Faculty.** Department of Environmental Health. Rollins School of Public Health, Emory University.

**Scholarship**

**Summary of Grant Support**

<b>Metric</b>	<b>Total</b>	<b>Since last promotion (2018)</b>
Total grants	27	14
Total grants as PI	21	13
Total funds from grants I participated in	\$19,064,176	\$9,660,819
Total funds received at Emory as award or sub-award	\$11,085,625	\$7,712,147
Percent of total external funds received at Emory (non-Emory funded)	94%	92%



During my time at Emory, I participated in research for a total of \$19 million dollars (considering the total amount of funds awarded to me or my collaborators) of which \$9,649,956 million consisted in external funds I received as award or sub-award at Emory University. Almost all (73%) of the total external funds were received after my promotion to Associate Professor (since 2018).

**List of Grants**

**Under Review**

**28) NIH/NIAID/R21 AI175888-01** “Longitudinal next generation sequencing analysis of antibody selection following flavivirus exposure in a cohort in Mexico” (resubmission, under review). Role: PI. Total requested: \$245,000. 2023-2025.

## Active

**29) SA-MZT-2023-071c.** “Nectar of the Gods: impact of flower nectar on mosquito longevity and virus transmission”. USDA- through Research Corporation for Science Advancement. Funds: \$55,000. Role: PI. 12/2023-12/2024.

**28) CDC-BAA-75D301-23-R-72545.** “Urban ecology and control of *Anopheles stephensi* in Ethiopia”. Total funds requested: \$275,000. 2023-2025. Role: PI.

**27) Principal Investigator** “Emory-Ethiopia partnership for containing the spread of *Anopheles stephensi* and the emergence of urban malaria in Africa”. Emory Global Health Institute Rapid Response Funds. \$30,000. 2023-2024.

**26) co-Principal Investigator** “Ecology and genomics of Heartland virus (HRTV), an emerging tick-borne virus” (Piantadosi A, co-PI). MP3 Initiative. Emory University. \$200,000. 2022-2024.

**25) Principal Investigator** Administrative supplement to “Quantifying the Epidemiological Impact of Targeted Indoor Residual Spraying on *Aedes*-borne Diseases”. NIH/NIAID U01 Cooperative Agreement (U01AI148069). \$59,076. 2022-2023.

**24) Principal Investigator** “Understanding *Aedes aegypti* population structure to inform vector prevention campaigns in Yucatan, Mexico”. Emory Global Health Institute. \$20,000. 2022-2023

**23) Principal Investigator** “Understanding the differential response to dengue and Zika virus infection”. Emory Global Health Institute. \$20,000. 2021-2023.

**22) Principal Investigator** “Quantifying the Epidemiological Impact of Targeted Indoor Residual Spraying on *Aedes*-borne Diseases”. NIH/NIAID U01 Cooperative Agreement (U01AI148069). \$6,338,150. 2020-2025.

**21) Principal Investigator** “Scialog: MZT / Measuring and modeling mosquito flight and movement behavior at high spatiotemporal resolution”. USDA. \$55,000. 2022-2023.

**20) Co-Investigator** “Evaluating the entomological impacts of spatial repellents under field conditions”. Department of Defense - Armed Forces Pest Management Board’s Deployed Warfighter Protection (AFPMB - DWFP). (PI, Gregor Devine, QIMR). Total Award \$886,301.38 (Emory sub-award \$80,927). 2022-2025.

## Completed

**19) Principal Investigator** “Invasion ecology and genomics of emerging tick-borne arboviruses: predicting niche expansion of heartland virus following the invasion of Asian Longhorned ticks in the U.S.”. USDA. \$50,000. 2021-2022.

**18) Principal Investigator** “The ecology and transmission of lone star tick-associated emerging arbovirus in Georgia”. Emory University Research Council. \$29,777. 2020-2021.

**17) co-Investigator** “An implementation / effectiveness trial for the community-led

- deployment of spatial emanators”. Innovative Vector Control Consortium. 2020-2022. \$654,565 (Devine G. QUIMR, PI; Emory sub: \$148,480).
- 16) co-Principal Investigator** “The sum of the parts: Understanding the interaction between individual and population immunity to dengue, viral diversity, and transmission dynamics”. Emory University and the MP3 Initiative. 2020-2022. \$250,000. (Collins M. co-PI)
- 15) Principal Investigator** “Improved Chemical control and diagnosis of Aedes-borne viruses”. Emory Global Health Institute. 2018-2020. \$49,500
- 14) Principal Investigator** “Targeted IRS for *Aedes* with Sumishield and Actellic 300CS”. Innovative Vector Control Consortium. Total award: \$292,069. 2018-2020.
- 13) Co-Investigator** for the project “Zika: A fast new intervention and an innovative method of evaluation”. Funder (USAID:AID-OAA-F-16-00094, Gregor Devine, QIMR, Australia, PI). Total Award: \$731,381 (Emory sub-award: \$94,168). 2018-2019.
- 12) Principal Investigator** for the Project “Quantifying Heterogeneities in Dengue Virus Transmission Dynamics”. Funder: NIH/NIAID via the P01 program (P01AI098670. TW Scott - UC Davis, Project Leader). Total award: \$7,319,879 (Emory sub-award: \$1,290,000). 2014-2019 (on a NCE for 2020).
- 11) Principal Investigator** for the project "Migration-selection balance in the evolution of insecticide resistance in *Aedes aegypti*". National Science Foundation (NSF) Evolutionary Ecology Program, Doctoral Dissertation Improvement Grant to support research of Marissa Grossman (PBEE, Emory). 2016-2018. Total award: \$16,367.
- 10) Core Member** for the Research Collaboration Network (RCN) on “Macroecology of Infectious Disease”. Funder: NIH/NSF/FIC (EEID) 1316223. 2013-2018. Total award: \$601,400 (no sub-award). 2013-2018.  
[http://disease\\_macroecology.ecology.uga.edu/](http://disease_macroecology.ecology.uga.edu/)
- 9) Principal Investigator** for the project “Laddering commercial-based products in Merida, Mexico”. Total award: \$182,162. 2017-2018.
- 8) Principal Investigator** for the project “RAPID: Harnessing spatial heterogeneity to contain Zika virus transmission”. Funder: National Science Foundation, Ecology and Evolution of Infectious Diseases program (NSF/EEID: 1640698). Total Award: \$196,921. 2016-2017.
- 7) Principal Investigator** for the project “Enhanced entomological surveillance of *Aedes aegypti* in the context of dengue, chikungunya and Zika transmission”. Funder: Centers for Disease Control and Prevention (CDC: OADS BAA 2016-N-17844). Total Award: \$494,681. 2016-2018.
- 6) Principal Investigator** for the project “Rapid Indoor Residual Spraying to Control Urban *Aedes aegypti* Mosquitoes”. Funder: Centers for Disease Control and Prevention (CDC: OADS BAA 2016-N-17844). Total Award: \$299,755. 2016-2017.
- 5) Principal Investigator** for the project "Urban Ecology of West Nile Virus in Atlanta, GA". Funder: Emory University Research Council grant. 2016-2017. Total Award: \$29,992. 2016-2017.

- 4) **Principal Investigator** for the project “Indoor Residual Spraying to Support Integrated Dengue Management”. Funder: Marcus Foundation for the program Combating Childhood Illness Seed Grants. Total award: \$47,200. 2015-2016.
- 3) **Principal Investigator** for the project “Sustainable Alternatives to DDT in the Middle East and North African Countries”. Funder: World Health Organization, Middle East and North African countries. Total award: \$10,000. 2015-2016.
- 2) **Co-Investigator** for the project “Red Epidemiologica de Enfermedades Zoonoticas y Transmitidas por Vector de importancia en Salud Publica” Funder: Subsecretaria de Educacion Superior (Mexico). PI: Juan Felipe de Jesus Torres Acosta. Total Award: \$180,000 (Emory: \$12,500, no sub-award, to cover the cost of a workshop on Spatial Analysis to be held in Merida, Yucatan). 2013-2014
- 1) **Co-Investigator** for the project “Baseline Assessment of WASH, Infectious Disease Surveillance, and Sustainable Development in the Bisate Catchment Area, Rwanda”. Funder: Global Health Institute multidisciplinary team Scholars grant (Emory University). Total award: \$25,000 covering fieldwork activities in Bisate, Rwanda, for 5 Emory students (PI: Christine Moe). Summer 2013.

**Prior to  
Faculty  
Appointment**

- Principal Investigator** for the project “Quantifying the Contribution of Public Spaces to the Risk of Exposure to the Dengue Vector, *Ae. aegypti*, in the City of Iquitos, Peru”. Funder: Global Health Institute multidisciplinary team Scholars grant (Emory University). Total award: \$9,000 covering fieldwork activities in Iquitos, Peru, for three Emory students. 2011.
- Co-investigator** for the project “Epidemiology of a Newly Recognized Threat to Chimpanzee Health in Gombe National Park, Tanzania”. Funder: Morris Animal Foundation. PI: Dr. Thomas Gillespie (Emory University). Total award: \$122,540. 2009-2011.
- Co-investigator** for the project “Measuring Entomological Risk for Dengue”. Funder: NIH/NIAID R01 AI069341-01. PI: Dr. Thomas W Scott (UC-Davis), co-PI: Uriel Kitron (Emory University). Total award: \$2,249,318. 2008-2012.
- Co-Investigator** for the project “Spatial Analysis of Dengue Virus Epidemics in Cairns, North Queensland”. Funder: James Cook University. Total Award: \$5000 to cover travel to Cairns to perform spatial analysis on dengue data from Cairns. 2008-2009.
- Co-investigator** of the Project “Population Structure and Risk Maps of *Triatoma infestans*, the Main Vector of Chagas’ disease”. Funder: National Agency of Scientific and Technologic Promotion of Argentina (PICT 2001-2002). PI: Dr. Ricardo E. Gürtler (University of Buenos Aires, UBA). Total award: \$100,000. 2004-2008.
- Co-investigator** of the project "Risk Maps and Control of *Triatoma infestans*, the Main Vector of Chagas disease in Rural Communities of Northwestern Argentina”. Funder: University of Buenos Aires (UBACyT – X301). PI: Dr. Ricardo E. Gürtler (UBA). Total award: \$25,000. 2005-2008.

**Co-investigator** of the Project "Cost-Effective Surveillance and Control Strategies for the Sustained Elimination of *Triatoma infestans* in Rural Areas". Funder: Bunge and Born Foundation. PI: Dra. M. Carla Cecere (UBA). Total award: \$10,000. 2004-2006.

**Co-investigator** of the project "Eco-Epidemiology of Chagas Disease in rural Northern Argentina". Funder: NIH/NSF/EID R01 TW05836. PI: Dr. Uriel Kitron (UIUC), co-PI: Dr. Ricardo E. Gürtler (UBA). Total award: \$2,000,000. 2002-2007.

**Co-investigator** of the Project "A Geographic Information System for the control and surveillance of *Triatoma infestans* and the Vectorial Transmission of Chagas Disease in Rural Areas of Northwestern Argentina". Funder: National Agency of Scientific and Technologic Promotion of Argentina (PICT 2001-2002). PI: Dr. Ricardo E. Gürtler (UBA). Total award: \$10,000. 2002-2005.

**Co-investigator** of the Project "Spatial and Temporal Analysis of Reinfestation by *Triatoma infestans* and Molecular Characterization of *Trypanosoma cruzi* to Control the Transmission of Chagas disease in Rural Communities of Northwestern Argentina". Funder: University of Buenos Aires (UBACyT-X078). PI: Dr. Ricardo E. Gürtler (UBA). Total award: \$10,000. 2001-2002.

**Field technician** for the Project "Peridomestic Sensing Device for *Triatoma infestans*". Funder: World Health Organization: TDR WHO/PNUD/WB. PI: Dr. Ricardo E. Gürtler (UBA). Total award: \$30,000. 1999-2000.

## Patents

**2011** **Vazquez-Prokopec G.M., Kitron U. Galvin W.** U.S. "Device and methods for capturing insects", Pub. No.: US 2011/0088309 A1, Date: Apr 21, 2011. U.S. Application No. 12/898,280. <http://www.google.com/patents/US20110088309> . Patent for the "Prokopack" mosquito aspirator used to perform mosquito (and other insects) collections for research purposes.

## Scientific Productivity

Citations: Last accessed, July 18, 2023



Source:

<http://scholar.google.com/citations?hl=en&user=EreyivoAAAAJ>

## Publication List

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**In peer-reviewed journals (Students I mentored:  $\psi$ PhD;  $\mp$ MPH;  $\xi$ Undergraduate;  $\text{£}$ post-doc; \*co-first author).**

*Note to reviewers: In my discipline, being first (primary) or last (senior) author confers the greatest level of seniority of the published work. For papers where I am not first or last author, my contributions are listed with a sign next to my name, as follows ( $\gamma$  co-investigator in award, helped obtain funds, conceptualize study, write manuscript, or analyze data;  $\theta$ : result of scientific workshop/meetings;  $\oplus$  helped collect data). Numbers in brackets [##] indicate approximate word count for open access articles without page number (starting in 2012).*

### Under Review

- 149) Earnest JT, Kirstein OD, Che-Mendoza A, Barrera-Fuentes GA, Puerta-Guardo H, Parra-Cardena M, Yam-Trujillo K, Collins MH, Pavia-Ruz N, Ayora-Talavera G, Gonzalez-Olvera G, Medina-Barreiro A, Bibiano-Marin W, Lenhart A, Halloran ME, Longini I, Dean N, Waller LA; Crisp AC; Correa-Morales F, Palacio-Vargas J, Granja-Perez P, Villanueva S, Delfin-Gonzalez H, Gomez-Dantes H, Manrique-Saide P, **Vazquez-Prokopec GM**. The TIRS trial: enrollment procedures and baseline characterization of a pediatric cohort to quantify the epidemiologic impact of targeted indoor residual spraying on *Aedes*-borne viruses in Merida, Mexico. *PLoS Neglected Tropical Diseases* (under review).

### Published

- 2024
- 148) Duran-Ahumada S, Karrer L, Cheng C, Roeske I, Pilchik J, Jimenez-Vallejo D, Smith E, Roy K, Kirstein O, Martin-Park A, Contreras-Perera Y, Che-Mendoza A, Gonzalez-Olvera G, Puerta-Guardo H, Uribe-Soto S, Manrique-Saide P, Vazquez-Prokopec GM. 2024. Wolbachia-mediated effects on the fitness and performance of *Aedes aegypti* under variable temperature and initial larval densities. *J. Med. Entomol* (in press)
- 147) Pérez-Sánchez E, Montiel-Cruz R, Romero-Domínguez E, Pascacio-Bermúdez G, Báez-Hernández A, Díaz Del Castillo-Flores G, Correa-Morales F, **Vazquez-Prokopec G**, Manrique-Saide P, Che-Mendoza A, Meneses-Ruiz G, López-Martínez I, Jesús Sánchez M. 2024. Seroprevalence of *Trypanosoma cruzi* among children from Veracruz, Mexico: Epidemiological baseline for a control model based on Chagas disease active transmission. *Biomedica* 31;44(1):92-101.
- 146) Escobar D, González-Olvera G, Gómez-Rivera ÁS, Navarrete-Carballo J, Mis-Ávila P, Baack-Valle R, Escalante G, Reyes-Cabrera G, Correa-Morales F, Che-Mendoza A, **Vazquez-Prokopec G**, Lenhart A, Manrique-Saide P. Insecticide susceptibility status of *Anopheles albimanus* populations in historical malaria foci in Quintana Roo, Mexico. *Malar J*. 2024 May 25;23(1):165.
- 145) Vinyas Harish, Felipe J. Colón-González, Filipe R.R. Moreira, Rory Gibb, Moritz U.G. Kraemer, Megan Davis, Robert C. Reiner Jr., David M. Pigott, T. Alex Perkins, Daniel J.

2023

- Weiss, Isaac I. Bogoch, **Gonzalo Vazquez-Prokopec**, Pablo Manrique Saide, Gerson L. Barbosa, Ester C. Sabino, Kamran Khan, Nuno R. Faria, Simon I. Hay, Fabian Correa-Morales, Francisco Chiaravalloti-Neto, Oliver J. Brady. 2024. Human movement and environmental barriers shape the emergence of dengue. *Nature Communications* 15(1): 4205.
- 144) Fausett E, Kirstein OD, Thompson A, Bellman S, Bella Roeske, Piantadosi A, Anderson T, **Vazquez-Prokopec GM**. Surveillance and detection of *Haemaphysalis longicornis* (Acari: Ixodidae) in protected areas from Georgia, USA. *J. Med Entomol.* tjae051.
- 143) Bellman S, Fausett E, Aeschleman L, Long A, Roeske I, Pilchik J, Piantadosi A, Vazquez-Prokopec G. 2024. Mapping the distribution of *Amblyomma americanum* in Georgia, USA. *Parasit Vectors.* 17(1):62.
- 142) Earnest J, Ciau-Carillo K, Kirstein OD, Che-Mendoza A, Espinoza D, Puerta-Guardo H, Yam-Trujillo K, Parra-Cardena M, Barrera-Fuentes G, Pavia-Ruz N, Correa-Morales F, Gomez-Dantes H, Granja-Perez P, Villanueva S, Manrique-Saide P, Ayora-Talavera G, Collins MH, **Vazquez-Prokopec GM**. Resurgence of Zika Virus Transmission in Merida, Mexico. *Am J Trop. Med. Hyg* (in press)
- 141)  $\psi$ Ocloo XS, **Vazquez-Prokopec GM**, Civitello DJ. 2023 Mapping current and future habitat suitability of *Azolla* spp., a biofertilizer for small-scale rice farming in Africa. *PLOS ONE* 18(12): e0291009.
- 140) Kirstein OD, Culquichicon C, Che-Mendoza A, Navarrete-Carballo J, Wang J, Bibiano-Marin W, Gonzalez-Olvera G, Ayora-Talavera G, Earnest J, Puerta-Guardo H, Pavia-Ruz N, Correa-Morales F, Medina-Barreiro A, Manrique-Saide P, **Vazquez-Prokopec GM**. 2023. Targeted indoor residual insecticide applications shift *Aedes aegypti* age structure and arbovirus transmission potential. *Sci Rep* **13**, 21271.
- 139) Gonzalez-Olvera G., Yared S, Aklilu E, Gebresilassie A, Bibiano-Marin W, Che-Mendoza A, Kirstein OD, Vazquez-Prokopec GM, Manrique-Saide P. 2023. Laboratory Evaluation of the larvicide Spinosad against *Anopheles stephensi* in Jigjiga, Ethiopia. *J. Am. Mosq. Assoc.* 39(4):284-287.
- 138) Yared S, Gebresilassie A, Aklilu E, Abdulahi E, Kirstein OD, Gonzalez-Olvera G, Che-Mendoza A, Bibiano-Marin W, Waymire E, Lines J, Lenhart A, Kitron U, Carter T, Manrique-Saide P, **Vazquez-Prokopec GM**. 2023. Building the vector in? Construction practices contribute to the invasion and persistence of *Anopheles stephensi* in Jigjiga, Ethiopia. *Lancet Planetary Health* (In Press).
- 137) Lambrechts L, Reiner RC Jr, Briesemeister MV, Barrera P, Long KC, Elson WH, Vizcarra A, Astete H, Bazan I, Siles C, Vilcarromero S, Leguia M, Kawiecki AB, Perkins TA, Lloyd AL, Waller LA, Kitron U, Jenkins SA, Hontz RD, Campbell WR, Carrington LB, Simmons CP, Ampuero JS, Vasquez G, Elder JP, Paz-Soldan VA, **Vazquez-Prokopec GM**, Rothman AL, Barker CM, Scott TW, Morrison AC. 2023. Direct mosquito feedings on dengue-2 virus-infected people reveal dynamics of human infectiousness. *PLoS Negl Trop Dis.* 2023 Sep 1;17(9):e0011593.
- 136)  $\psi$ Ocloo X, **Vazquez-Prokopec GM**, Civitello D. 2023. Mapping current and future habitat suitability of *Azolla* spp., a biofertilizer for small-scale rice farming in Africa. *PLoS ONE* (in press).
- 135) Contreras-Perera Y, Flores-Pech JP, Pérez-Carillo S, Puerta-Guardo H, Geded-Moreno E, Correa-Morales F, Che-Mendoza A, Ayora-Talavera G, **Vazquez-Prokopec GM**, Martin-Park A, Manrique-Saide P. Different larval diets for *Aedes aegypti* (Diptera: Culicidae) under laboratory conditions: in preparation for a mass-rearing system. *Biologia* (2023). <https://doi.org/10.1007/s11756-023-01469-5>.
- 134) Sean M. Cavany, Guido F. Camargo España, Alun L. Lloyd, **Gonzalo M. Vazquez-Prokopec**, Helvio Astete, Lance A. Waller, Uriel Kitron, Thomas W. Scott, Amy C.



Morrison, Robert C. Reiner Jr., T. Alex Perkins. Fusing an agent-based model of mosquito population dynamics with a statistical reconstruction of spatio-temporal abundance patterns. *PLoS Computational Biology* 19 (4), e1010424.

**133)** Crisp AM, Halloran ME, Longini IM, **Vazquez-Prokopec GM**, Dean NE. 2023. Covariate-Constrained Randomization with Cluster Selection and Substitution. *Clinical Trials*. doi:[10.1177/17407745231160556](https://doi.org/10.1177/17407745231160556)

**132)** **Vazquez-Prokopec GM**, Morrison AC, Paz-Soldan V, Stoddard ST, Koval W, Waller LA, Perkins TA, Lloyd AL, Astete H, Elder J, Scott TW, Kitron U. 2023. Inapparent infections shape the transmission heterogeneity of dengue, *PNAS Nexus*: pgad024. [4100].

**131)** Morrison AC, Paz-Soldan VA, **Vazquez-Prokopec GM**, Lambrechts L, Elson WH, Barrera P, Astete H, Briesemeister V, Leguia M, Jenkins SA, Long KC, Kawiecki AB, Reiner RC Jr, Perkins TA, Lloyd AL, Waller LA, Hontz RD, Stoddard ST, Barker CM, Kitron U, Elder JP, Rothman AL, Scott TW; Proyecto Dengue Group. 2023. Quantifying heterogeneities in arbovirus transmission: Description of the rationale and methodology for a prospective longitudinal study of dengue and Zika virus transmission in Iquitos, Peru (2014-2019). *PLoS One*. 18(2): e0273798. [6321].

**130)** Che-Mendoza A, González-Olvera G, Medina-Barreiro A, Arisqueta-Chablé C, Herrera-Bojórquez J, Bibiano-Marín W, Kirstein O, **Vazquez-Prokopec GM**, Manrique-Saide P. 2023. Residual efficacy of the neonicotinoid insecticide Clothianidin against pyrethroid-resistant *Aedes aegypti*. *Pest Manag Sci*. 79(2):638-644.

2022

**129)** Kirstein OD, Talavera GA, Wei Z, Ciau-Carrillo KJ, Koyoc-Cardena E, Puerta-Guardo H, Rodríguez-Martín E, Medina-Barreiro A, Mendoza AC, Piantadosi AL, Manrique-Saide P, **Vazquez-Prokopec GM**. 2022. Natural Aedes-Borne Virus Infection Detected in Male Adult *Aedes aegypti* (Diptera: Culicidae) Collected From Urban Settings in Mérida, Yucatán, México. *J Med Entomol*. 59(4):1336-1346.

**128)**  $\Psi$ McMillan JR, Hamer GL, Levine RS, Mead DG, Waller LA, Goldberg TL, Walker ED, Brawn JD, Ruiz MO, Kitron U, **Vazquez-Prokopec GM**. 2022. Multi-Year Comparison of Community-and Species-Level West Nile Virus Antibody Prevalence in Birds from Atlanta, Georgia and Chicago, Illinois, 2005-2016. *Am. J. Trop. Med. Hyg*. 108(2): 366-376.

**127)** **Vazquez-Prokopec GM**, Che-Mendoza A, Kirstein OD, Bibiano-Marín W, González-Olvera G, Medina-Barreiro A, Gomez-Dantes H, Pavia-Ruz N, Manrique-Saide P. 2022. Preventive residual insecticide applications successfully controlled *Aedes aegypti* in Yucatan, Mexico. *Nature Sci Rep*. 12: 21998. [4323].

**126)** Ayora-Talavera G, Kirstein OD, Puerta-Guardo H, Barrera-Fuentes GA, Ortégón-Abud D, Che-Mendoza A, Parra M, Pena-Miranda F, Culquichicon C, Pavia-Ruz N, Behesthi A, Trovao NS, Granja-Perez P, Manrique-Saide P, **Vazquez-Prokopec GM**, Earnest JT. (2022) SARS-CoV-2 antibody prevalence in a pediatric cohort of unvaccinated children in Mérida, Yucatán, México. *PLoS Global Public Health* 2(6): e0000354. [5120].

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#### Book Chapters

2023 3) **Vazquez Prokopec GM**, Binkley L, Gomez Dantes H, Berrian A, Paz Soldan VA, Manrique-Saide PC, Gillespie T. Chapter 11: Urbanization, Human Societies and Pandemic Preparedness and Mitigation. In *Modernizing Global Health Security to Prevent, Detect, and Respond*. Editors: Scott McNabb, Affan Shaikh, Carol Haley. Paperback ISBN: 9780323909457. <https://www.elsevier.com/books/modernizing-global-health-security-to-prevent-detect-and-respond/mcnabb/978-0-323-90945-7>

2021 2) Ritchie SA, Devine GJ, **Vazquez-Prokopec GM**, Lenhart A, Manrique-Saide PM, and Scott TW. Chapter 4: Insecticide-based approaches for dengue vector control. In *Innovative strategies for vector control: Progress in the global vector control response. Ecology and Control of Vector-borne Diseases, Volume 6*. Editors: Constantianus J.M. Koenraadt, Jeroen Spitzen and Willem Takken. Published: 2021 Pages: 300. eISBN: 978-90-8686-895-7 Wageningen Academic Publishing, Wageningen, Netherlands. <https://www.wageningenacademic.com/doi/abs/10.3920/978-90-8686-895-7>

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#### Technical Documents

2024 4)

2019 3) Pan American Health Organization. 2019. **Manual for Indoor Residual Spraying in Urban Areas for *Aedes aegypti* Control**. Role: Author. Languages: English, Spanish, Portuguese. ISBN: 978-92-75-12109-2, eISBN: 978-92-75-12110-8. <http://iris.paho.org/xmlui/handle/123456789/51637>

2) Pan American Health Organization. 2019. **Technical document for the implementation of interventions based on generic operational scenarios for *Aedes aegypti* control**. ISBN:978-92-75-12109-2, eISBN: 978-92-75-12110-8. Role: Author. Languages: English, Spanish, Portuguese. <http://iris.paho.org/xmlui/handle/123456789/51652>

1) Pan American Health Organization. 2019. **Evaluation of Innovative Strategies for *Aedes aegypti* Control: Challenges for their Introduction and Impact Assessment**.

ISBN: 978-92-75-12096-5; eISBN: 978-92-75-12097-2 . Role: reviewer and contributor.  
Languages: English, Spanish, Portuguese.  
<http://iris.paho.org/xmlui/handle/123456789/51375>.

## Contributions to Public Health Policy

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Contributor to the WHO-Strategic Advisory Group of Experts (SAGE) position paper on Dengue Vaccines “WHO position paper on dengue vaccines – May 2024”. Weekly epidemiological record. 99, 203–224. 2024. <https://iris.who.int/bitstream/handle/10665/376641/WER9918-eng-fre.pdf>

Contributor to the WHO “Operational manual on indoor residual spraying: Control of vectors of malaria, Aedes-borne diseases, Chagas disease, leishmaniasis and lymphatic filariasis”. World Health Organization. ISBN: 978-92-4-008399-8. <https://www.who.int/publications/i/item/9789240083998>

Scientific Consultant for the World Health Organization (Vector Control Advisory Group; the Research and Development Blueprint for Vaccine Evaluation; TDR, Scientific Advisory Group of Experts, SAGE), the Pan-American Health Organization (Division of Neglected Tropical Diseases) and the US Government (White House Office of Science and Technology Policy, US Government Accountability Office, US Centers for Disease Control and Prevention).

Scientific Technical Advisor for Mexico’s Federal Ministry of Health. CENAPRECE. Member of the External Advisory Group for Monitoring and Management of Insecticide Resistance in disease vectors. 2020-2024.

Author of three technical manuals for Pan-American Health Organization, driving change in surveillance and control of *Ae. aegypti* in urban areas.

Research on Chagas disease cited in “Research Priorities for Chagas Disease, Human Trypanosomiasis and Leishmaniasis. Technical Report of the TRR disease reference group” (ISBN 978 92 4 120975 5. World Health Organization, Geneva) and in the WHO Global Vector Control Response 2017-2030 (ISBN 978-92-4-151297-8).

Research on Cost of cutting mosquito budgets (Vazquez-Prokopec et al. 2010) used in the Justification of Estimates for Appropriation Committees for US Federal budget assigned to the Centers for Disease Control for years 2012-2014.

## Invited Talks

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- 2024** **Invited Presenter** “Urbanization and the challenge of *Anopheles stephensi* and urban malaria emergence in Sub-Saharan Africa”. Centers For Disease Control and Prevention, Malaria Research Seminar. May 10<sup>th</sup>, 2024.  
**Invited Presenter** “Leveraging high-res remote sensing data to map urban expansion and the establishment of *Anopheles stephensi* in Ethiopia”. Meeting: Technology-enabled LSM. Bill and Melinda Gates Foundation invitation-only meeting. June 14<sup>th</sup>, 2024.
- 2023** **Invited Presenter** “Urbanization, invasive mosquitoes, and the challenge of *Anopheles stephensi* invasion in Africa”. Pan American Health Organization (PAHO) Technical Advisory Group meeting on Malaria. December 6, 2023.  
**Presenter “Global Burden of dengue”** World Health Organization SAGE Annual Meeting. September 25, 2023. (Virtual)

**Invited Talk** “Malaria and West Nile Virus in the US: a tale from the past to inform the future”. Emory University ECHO (Project Extension for Community Healthcare Outcomes (ECHO)) session on 9.14.23 titled “Mosquito-borne Diseases”.

<https://med.emory.edu/departments/medicine/divisions/infectious-diseases/serious-communicable-diseases-program/covid-19-resources/access-past-echo-recordings.html>

**Keynote Talk** “Harnessing *Aedes aegypti* behavior to improve the control of *Aedes*-borne virus transmission”. *Pan-American Dengue Research Network* meeting, which has been rescheduled for November 13-17, 2023, in Lima, Peru.

**Invited Talk** “The TIRS trial: protocol for a cluster randomized controlled trial assessing the efficacy of preventive targeted indoor residual spraying to reduce *Aedes*-borne viral illnesses in Merida, Mexico”. *Presented at the World Health Organization Vector Control Advisory Group (WHO-VCAG)*. Virtual. April 24, 2023.

**Invited Talk** “Lessons from urban *Aedes aegypti* control and their relevance for *Anopheles stephensi* containment in Africa”. World Health Organization Meeting: A Regional Response to the Invasion of *Anopheles stephensi* in Africa. March 8-10, 2023. Addis Ababa. Ethiopia.

**Invited Talk** “Measuring mosquito flight and behavior at high spatiotemporal resolution: an innovative approach to improve vector control tools”. *Innovative Vector Control Consortium*. TechBites (Virtual). Jan 13, 2023.

2022 **Invited Talk** “Cambiano el paradigma del control de arbovirosis urbanas: considerando la complejidad biológica en el diseño e implementación de intervenciones”. Symposium “Cooperación para una América sin enfermedades desatendidas”, Spanish. July 5, 2022. Instituto Nacional de Medicina Tropical de Puerto Iguazú, Provincia de Misiones, Argentina.

**Keynote Speaker** “From individual mobility traits to coupled heterogeneities: untangling the contribution of human behavior to dengue transmission dynamics”. EEID meeting. Atlanta, GA 6/7/2022.

2021 **Invited Talk** “Bridging science and public health policy to control urban mosquito-borne diseases”. *Emory Emeritus College Talk Series*. November 30, 2021.

**Invited Talk** “Towards evidence-based *Aedes aegypti* control: classic and novel approaches”. Centers For Disease Control and Prevention. Entomology Branch Seminar. December 1<sup>st</sup>, 2021.

**Keynote Speaker** “Challenges and opportunities for the control of arboviruses in Covid-19 times”, September 23, 2021 (Virtual). Advanced Seminars in Global Health and Health Diplomacy. FIOCRUZ Foundation. Brazil.

**Invited Talk** “Risk stratification as a tool to guide *Aedes aegypti* control interventions in urban areas”. 17th Curso Internacional de Dengue y otros Arbovirus en el contexto de la pandemia de COVID-19, (virtual). September 27-October 1, 2021.

2020 **Invited Talk** “COVID-19 and its impact on vector control in the Americas: challenges and opportunities”. Global Health Summit for the Americas 2020. October 9<sup>th</sup>, 2020.

**Invited Talk** “Risk stratification as a tool to guide *Aedes aegypti* control interventions in urban areas”. Organized by Pan-American Health Organization (PAHO/WHO) <https://youtu.be/Q9eCbzOZoWc>

**Invited Talk** “La estratificación de riesgo para las intervenciones del control del *Aedes aegypti* en áreas urbanas” organized by Pan-American Health Organization (PAHO/WHO). <https://www.youtube.com/watch?v=076UmCC2IRc&feature=youtu.be>

**Invited Talk** “Drivers of heterogeneity in dengue transmission and control”. Department of Biology seminar series. University of Notre Dame. March 5, 2020.

- 2019** **Invited Talk** “Coupled Heterogeneities and their impact in dengue transmission dynamics and control”. Center for Infectious Disease Dynamics (CIDD) seminar series, Penn State University, October 16, 2019.
- Invited Talk** “Control de Aedes en áreas urbanas: ¿se puede estratificar el riesgo y mejorar la efectividad de métodos de control?”. 55th Congress of the Brazilian Society of Tropical Medicine, Belo Horizonte, Brazil. July 30<sup>th</sup>, 2019.
- Invited Talk** “Targeted Indoor Residual Spraying (TIRS) for the control of *Aedes aegypti*: evidence from phase-I/II to inform a phase-III trial”. Vector Control Product Development Pathway: Phase-Dependent Evidence Gathering Workshop. National Institutes of Health, Bethesda, USA. June 24-25, 2019.
- Invited Talk** “Vector Borne Diseases: The Ecologic Interface of Global Health, One Health, and Travelers' Health” CISTM16, meeting of the International Society of Travel Medicine, Washington, DC, 5-9 June, 2019.
- Invited Talk** “Targeted Indoor Residual Spraying (TIRS) for the control of *Aedes aegypti*”. IVCC ESAC5 meeting, London, UK, April 22-26, 2019.
- 2018** **Invited Talk** “The role of human mobility in infectious disease dynamics”. Institute of Tropical Medicine, Antwerp, Belgium. October 4, 2018.
- Invited Talk** “Métodos de estratificación de riesgo para apoyar la generación de escenarios operativos”. *2nd Annual Meeting of the CENAPRECE*. Los Cabos, Baja California Sur, Mexico. May 28-30, 2018.
- 2017** **Invited Talk** “Integrated Vector Management in the context of Dengue, Chikungunya and Zika outbreaks”. *Mexico-US Forum on Arbovirus Disease Research: Priorities for Collaboration and Partnership* (organized by US State Department and Mexico’s Ministry of Foreign Affairs). Mexico City, November 28-30, 2017.
- Invited Talk** “Combining contact tracing with targeted indoor residual spraying significantly reduces dengue transmission” *GIS Day, Centers for Disease Control and Prevention, Atlanta, GA, USA*. November 15, 2017.
- Invited Talk** “Deltamethrin resistance in *Aedes aegypti* results in vector control failure in Merida, Mexico”. *66<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene*. Baltimore, MD, November 7-10, 2017.
- Invited Talk** “Mosquitoes, Viruses and Supercomputers: Using Science to Improve Zika Virus Emergency Control”. *Emory University Homecoming Weekend*. October 21, 2017.
- Invited Talk** “*Aedes aegypti* control: indoor residual spraying and the impact of insecticide resistance”. *40<sup>th</sup> Annual Georgia Mosquito Control Association meeting*. Athens, GA, October 18-20, 2017.
- Invited Talk** “Environmental and social impacts: urbanization and arbovirus transmission and control”. TDR/SDC/IDRC/STPH-funded Workshop: “Multi-Sectoral Approaches for the Prevention and Control of Malaria and Vector-Borne Diseases: Current knowledge and Research Gaps and Priorities”. June 26-28, 2017. Geneva, Switzerland.
- Invited Talk** “From Spatial Patterns to Integrated *Aedes*-borne Disease Control”. *Meeting of DENTARGET working group*. Cali, Colombia, April 23-28, 2017.
- Invited Talk** “From Spatial Patterns to Integrated *Aedes*-borne Disease Control”. *Meeting evaluating impact of DENVAXIA® implementation in the Yucatan*. Sponsored by Sanofi-Pasteur. Merida, Mexico, March 2-4, 2017.
- Invited Talk** “Targeted Indoor Residual Spraying for Urban *Aedes* Control”. Zika Vector Control Strategies for *Aedes aegypti*-transmitted diseases. *Summit*. Organized by the Centers for Disease Control and Prevention (CDC) foundation. Atlanta, GA, February 27-28, 2017.

- Presentation Selected from Submitted Abstract** “Vector Control Approaches for Immediate Response to Zika Outbreaks”. *American Association for the Advancement of Sciences (AAAS) annual meeting. Boston, MA, February 16-20, 2017.*
- 2016** **Presentation Selected from Submitted Abstract** “662 - Combining Contact Tracing with Targeted Indoor Residual Spraying Significantly Impacts Dengue Transmission”. *65<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene. Atlanta, GA, November 13-17, 2016.*
- Invited Talk** “Risk stratification of dengue virus transmission and its use for improving Disease surveillance and control”. *International Meeting for the validation of novel alternatives to Aedes aegypti control in the national program of dengue virus in Brazil. Brazilia 17-18 Feb, 2016 (meeting organized by Brazil’s Health Minister to identify novel tools to contain Zika virus epidemics).*
- 2015** **Invited Talk** “Mapping and Spatial Analysis in Disease Ecology” for the meeting *Global Health Challenges and Collaborative Opportunities in Arbovirus Research NIH-Fiocruz Scientific Workshop 30 Nov. – 3 Dec. 2015. Manaus, Amazonas, Brasil.*
- Invited Speaker** “Spatial dimension of dengue surveillance, transmission and control”. *14<sup>th</sup> International Dengue Course, La Havana, Cuba, August 13, 2015.*
- Invited Speaker** “Bugs on the move: linking human mobility networks to infectious disease dynamics”. *Queensland Institute for Medical Research (QIMR), Brisbane, Australia.*
- Invited Speaker** “Bugs on the move: disentangling the role of human movement in infectious disease dynamics”. *James Cook University, Cairns, Australia, Medical Entomology course (Ritchie S. and Burkot T., instructors).*
- Invited Speaker** “Conceptualizing the spatial dimension of dengue transmission and control”. *14<sup>th</sup> International Dengue Course 10-21st August 2015, La Havana, Cuba.*
- Invited Speaker** “Human mobility, dynamic contacts and infectious disease dynamics within a resource-poor urban environment”. *13<sup>th</sup> Ecology and Evolution of Infectious Disease meeting. Athens, GA, May 27, 2015.*
- Invited Speaker** “Cost-effective delivery of Chagas disease vector control interventions”. *RAPIDD workshop on Targeted Interventions. South Bend, IN, March 13-15, 2015.*
- Invited Speaker** “Mapeo de casos reportados de dengue, su persistencia y relevancia para la estratificación del riesgo de transmisión”. *DENTARGET network meeting, Natal, Brazil, Apr 13-17, 2015.*
- Invited Speaker** “Urban stream health and West Nile virus ecology” *for the course Climate Change and the City led by Brian Stone. Georgia Tech, February 10, 2015.*
- 2014** **Invited Speaker** “Understanding the Spatial Dimension of Vector-Borne Disease Transmission and Control”. *Centers for Disease Control and Prevention, Atlanta, GA, November 19, 2014.*
- Invited Speaker** “Understanding the Spatial Dimension of Vector-Borne Disease Transmission and Control”. *Research Triangle Institute. Washington, DC. September 16, 2014.*
- Invited Speaker** “Mapping, mobility and modelling for supporting dengue and Chagas’ disease control efforts”. *RAPIDD workshop on linking risk maps and models. Winchester, England, July 22-24, 2014.*
- Invited Speaker** “Entendiendo la Dimension Espacial en la Transmision de Enfermedades Vectoriales” for the *Jornadas Academicas de Aniversario del Laboratorio Estatal de Salud Publica, Merida, Yucatan, Mexico, July 10, 2014.*
- Invited Speaker** “Urban stream health and West Nile virus ecology” *for the course Climate Change and the City led by Brian Stone. Georgia Tech, February 14, 2014.*
- 2013** **Invited Speaker** “Entomological correlates of dengue transmission: revisiting current approaches and identifying missing connections”. *X International Congress: 25 Years of Dengue Surveillance in Panama – 85<sup>th</sup> Anniversary Gorgas Commemorative Institute - II International Meeting*



*for the control of Aedes aegypti Why can't we control Aedes aegypti? Current status and future perspectives. November 19-22, 2013, Panama City, Panama.*

**Invited Speaker** “Bugs on the Move: Linking Human Mobility Networks to Infectious Disease Dynamics” *Symposium on Global Health Research. New Mexico State University, Las Cruces. July 19, 2013.*

**Invited Speaker** “Ecologia Urbana” *Curso Teorico Practico en Prevencion de las Enfermedades Transmitidas por Vector. Centro de Investigaciones Regionales Dr Hideyo Noguchi- Universidad Autonoma de Yucatan, Merida, Mexico. June 24, 2013.*

**Invited Speaker** “Entendiendo la dimension especial en la transmision de enfermedades vectoriales”. *Programa de Enfermedades Transmitidas por Vector CENAPRECE Secretaría de Salud, Mexico City, Mexico. January 14, 2013.*

2012

**Symposium Organizer** “98. New Paradigms for Rational Chagas Disease Prevention and Control”. *61<sup>st</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 12, 2011.*

**Presentation Selected from Submitted Abstract** “Novel approaches for cost-effective delivery of Chagas disease vector control interventions”. *61<sup>st</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 12, 2011.*

**Invited Speaker** “Linking fine scale mobility and dynamic contacts to understand the spatial dimension of pathogen transmission” *NSF-Ecology and Evolution of Infectious Diseases Workshop. Columbus, Oh, September 18, 2012.*

**Invited Speaker** “Modeling the Vector: accounting for vector biology and behavior in dengue models” *NIMBioS investigative workshop: modeling dengue fever. Knoxville, Tennessee July 23-24, 2012.*

**Panelist** “GIS4Health” *Spatial Plexus Meeting. Atlanta, GA May 20, 2012.*

**Panelist** “Beyond disciplinary boundaries: Covering the “One Health” movement” *at the Association of Health Care Journalists. Atlanta, GA, April 20, 2012.*

**Invited speaker** “Applications of GIS and Spatial Analysis in Public Health Entomology”. *Data Visualization, Network Science, Quantitative and Spatial Analyses Workshop. February 10th, 2012, Emory University.*

2011

**Invited speaker** “Spatial dynamics of dengue virus transmission in urban environments” *GIS-Day 2011, Centers for Disease Control and Prevention, November 17, 2011.*

**Invited speaker** “Linking humans, vectors and the environment to understand the spatial dynamics of vector-borne disease transmission”. *2011 Dean’s Lecture Series, College of Public Health, University of South Florida, Tampa, FL November 4, 2011.*

**Presentation Selected from Submitted Abstract** “West Nile virus transmission in combined sewer overflow streams”. *34<sup>th</sup> Georgia Mosquito Control Association Meeting, Athens, GA October 20, 2011.*

**Plenary talk.** “GIScience in public health: Chagas disease, dengue and West Nile virus”. *GIS in Public Health URISA annual meeting, Atlanta, GA. June 29, 2011.*

**Invited speaker.** “Using GIS and spatial analysis to understand the spatial dimension of dengue virus transmission”. *GeoSWG group meeting. Centers for Disease Control and Prevention (CDC), Atlanta, GA. April 26, 2011.*

**Invited speaker** “Institutions and community participation in parasitic disease control: the argentine case” *for Emory’s Program in Development Studies, March 30, 2011.*

2010

**Presentation Selected from Submitted Abstract** “Quantifying the spatial dimension of dengue virus epidemic spread in a tropical urban environment”. *59<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 3-7, 2010.*

**Invited speaker** “West Nile Virus Infection Risk is Associated with Combined Sewer Overflow Streams in Urban Atlanta, Georgia”. *Geography and Public Health Showcase –Centers for Disease Control and Prevention, Atlanta, GA November 18, 2010.*

**Presentation Selected from Submitted Abstract** “A new cost-effective aspirator for adult mosquito collections”. *American Mosquito Control Association 76<sup>th</sup> annual Meeting, Lexington, KY, March 27-31.*

**Invited speaker** “Current modeling and data needs for linking large-scale models of vector-borne diseases and remote sensing data”. *Scientific Workshop on Linking Large-scale Spatiotemporal Data to Process-based Models of Vector-borne Disease organized by the US NIH/DoD Research and Policy for Infectious Disease Dynamics (RAPIDD) initiative. Washington, DC, February 22-23.*

**Invited speaker** “The future of vector control efforts for Chagas disease”. *Centers for Disease Control and prevention (CDC), Division of Parasitic Diseases seminar series. Atlanta, GA, February 8.*

**Invited speaker** “Linking human movement and dengue virus transmission in urban environments”. *Scientific Workshop on Movement and Spatial Dynamics of Mosquito-Transmitted Diseases organized by the US NIH/DoD Research and Policy for Infectious Disease Dynamics (RAPIDD) initiative. Washington, DC, January 25-27.*

**2009** **Invited speaker** “Spatial analysis of multiple dengue outbreaks in Cairns, Australia”. *Bill and Melinda Gates annual project meeting on the application of mathematical models to assess the population dynamics of Wolbachia-transformed Aedes aegypti mosquitoes. Cairns, Australia, December 18-22.*

**Presentation Selected from Submitted Abstract** “The future of vector control for Chagas disease”. *58<sup>th</sup> American Society of Tropical Medicine and Hygiene 58<sup>th</sup> annual meeting, Washington, DC, November 18-22.*

**Invited speaker** “A new, cost-effective, adult mosquito aspirator” at the *Georgia Mosquito Control Association meeting, Athens, GA, October 21-23, 2009.*

**2008** **Invited speaker** “Spatial heterogeneity and risk maps of community infestation by Chagas disease vectors in northwestern Argentina” at the *GNOSIS-GIS 2<sup>nd</sup> Annual meeting, New Orleans, LA, December 5-6, 2008.*

**Invited speaker** “West Nile Virus in Urban Areas – From Chicago to Atlanta” at the *Georgia Mosquito Control Association Meeting, Athens, GA, October 15-17, 2008.*

**2005** **Oral presentation** “Spread of Chagas disease vectors within and between rural communities of Northwestern Argentina” at the *Emerging Infectious Diseases Network annual meeting, Washington DC, December 16, 2005.*

**Presentation Selected from Submitted Abstract** “Spatio-temporal patterns of reinfestation by *Triatoma guasayana* (Hemiptera: Reduviidae) in a rural community of north-western Argentina” at the *International Congress of Vector Ecology. Reno, Nevada, USA. October 2-7 2005.*

**2000** **Presentation Selected from Submitted Abstract** “A longitudinal paired field trial of two sensing devices for detecting peridomestic populations of *Triatoma Infestans* (Hemiptera: Reduviidae) in rural Northwestern Argentina” at the *XXI International Congress of Entomology, Foz do Iguaçu, August 25, 2000.*

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## Poster Presentations (Students I mentored: ψPhD; ‡MPH; ξUndergraduate; £post-doc)

**2023** ψBellman S, Vazquez-Prokopec GM, Piantadosi A. “Evaluation of a Heartland virus hotspot in Georgia, USA”. *American Society for Virology Annual Meeting.*

**2022** £Earnest JT, Puerta-Guardo H, Kirstein OD, Barrera-Fuentes GA, Mendoza AC, Manrique-Saide P, Ayora-Talavera GA, Collins MH, **Vazquez-Prokopec GM.** “Sequencing virus-specific B cell receptors from adolescents exposed to flaviviruses in the Yucatan peninsula”. *Keystone Symposia on Immunology.*

- £Gabriela González Olvera, Rita L. Vizcaino Cabarrus, Alicia Méndez-Manzanero, Anuar Medina-Barreiro, Azael Che-Mendoza, Oscar David-Kirstein, Pablo Manrique-Saide, **Gonzalo Vazquez-Prokopec**, Audrey E. Lenhart. “Determining a diagnostic dose of pirimiphos-methyl for *Aedes aegypti* using treated bottles”. *71th American Society of Tropical Medicine and Hygiene annual meeting*. Seattle, WA. Nov 1-5, 2022.
- Gregor Devine, Guillermo Guillermo-May, Oscar Kirstein, Aylin Chi-Ku, Norma Pavia-Ruz, Azael Che Mendoza, Melissa Graham, Nisa Suraj Nath, **Gonzalo Vazquez Prokopec**, Pablo Manrique Saide. “Community-led deployment of spatial repellents offers protection against *Aedes aegypti* in Mexico” *71th American Society of Tropical Medicine and Hygiene annual meeting*. Seattle, WA. Nov 1-5, 2022.
- £James T. Earnest, Henry Puerta-Guardo, Oscar D. Kirstein, Gloria A. Barrera-Fuentes, Azael C. Mendoza, Matt H. Collins, Norma Pavira-Ruz, Salha Villanueva-Jorge, Pilar Granja-Perez, Ira Longini, Natalie Dean, Elizabeth Halloran, Lance Waller, Audrey Lenhart, Pablo Manrique-Saide, Guadalupe Ayora Talavera, **Gonzalo Vazquez-Prokopec**, Hector Gomez-Dantes. “Arbovirus seroprevalence in a cohort of children from Merida, Yucatan, Mexico: A baseline serology analysis of for the a TIRS trial field control randomized trial.” *71th American Society of Tropical Medicine and Hygiene annual meeting*. Seattle, WA. Nov 1-5, 2022.
- £Oscar David Kirstein, Azael Che-Mendoza, Wilbert Bibiano-Marín, Natalie Dean, Elizabeth Halloran, Ira Longini, Matthew Collins, Lance Waller, Hector Gomez Dantes, Audrey Lenhart, Thomas Hladish, Anuar Medina-Barreiro, Gabriela Gonzalez-Olvera, Norma Pavia-Ruz, Guadalupe Ayora-Talavera, Pablo Manrique-Saide, **Gonzalo M. Vazquez-Prokopec**. “The TIRS trial: protocol and preliminary findings of a cluster randomized controlled trial assessing the efficacy of targeted indoor residual spraying to prevent Aedes-borne viral illnesses in Merida, Mexico”. *71th American Society of Tropical Medicine and Hygiene annual meeting*. Seattle, WA. Nov 1-5, 2022.
- £Oscar David Kirstein, Azael Che-Mendoza, Wilbert Bibiano-Marín, Hector Gomez Dantes, Audrey Lenhart, Anuar Medina-Barreiro, Gabriela Gonzalez-Olvera, Norma Pavia-Ruz, Pablo Manrique-Saide, **Gonzalo M. Vazquez-Prokopec**. “The entomological impact of targeted indoor residual spraying (TIRS) against *Aedes aegypti*: preliminary results from a cluster-randomized controlled trial in Mérida, México.”. *88’s AMCA meeting. 03/ 03/ 2022. Jacksonville, Fl. USA.*
- £Gabriela González Olvera, Rita L. Vizcaino Cabarrus, Alicia Méndez-Manzanero, Anuar Medina-Barreiro, Azael Che-Mendoza, Oscar David-Kirstein, Pablo Manrique-Saide, **Gonzalo Vazquez-Prokopec**, Audrey E. Lenhart. “Determining a diagnostic dose of pirimiphos-methyl for *Aedes aegypti* using treated bottles”. *88’s AMCA meeting. 03/ 03/ 2022. Jacksonville, Fl. USA.*
- 2021     ψStephanie Bellman. “Emerging Tickborne Disease: A Study of Heartland Virus in Georgia Ticks”. *Georgia Mosquito Control Association Meeting, Oct 21, 2021 (Virtual)* .
- 2020     **COVID limited presentations and annual meetings. No activity.**
- 2018     **Gonzalo M. Vazquez-Prokopec**, Amy Morrison, Valerie Paz-Soldan, William Koval, Lance Waller, Alex Perkins, Alun Lloyd, John Elder, Uriel Kitron, Thomas W. Scott. “Asymptomatic infections shape the transmission heterogeneity of dengue”. *ASTMH 67th Annual Meeting, October 28 - November 1, 2018. New Orleans, LA USA*

- 2017      ξKoval W., **Vazquez-Prokopec GM.** Modelling Population Dynamics of the Vector *Culex pipiens* in the Atlanta Urban Environment. *Ecological Society of America, Annual Meeting, Portland Oregon.*
- ‡Taylor M, Manrique-Saide P, Martin-Park A, González-Olvera G, Bibiano-Marín W, Vadillo-Sánchez J, Del Castillo Centeno F, Lenhart A, Vazquez-Prokopec G. Baseline organophosphate susceptibility for control of pyrethroid-resistant *Aedes aegypti*. *66<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Baltimore, MD, November 7-10, 2017.*
- £Dunbar MW, Devine GJ, Churcher T, Ritchie SA, Manrique-Saide P, Pavia-Ruz N, Morales-Ríos E, Bibiano-Marín W, Medina-Barreiro A, Vazquez-Prokopec GM. Experimental Evaluation of the Effect of Passive Metofluthrin Emanators on Landing and Mortality of Pyrethroid-Resistant *Aedes aegypti*. *66<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Baltimore, MD, November 7-10, 2017.*
- ψMcMillan JR, Blakney R, Lund A, Mead D, Coker S, Bisanzio D, ξKoval W, Kitron U, Vazquez-Prokopec GM. Road-side catch basins as sentinel units for the quantification of West Nile virus infection rates in *Culex spp.* mosquitoes. *66<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Baltimore, MD, November 7-10, 2017.*
- ‡Gray L, Dzib Flores S, Medina Barreiro A, Vadillo-Sánchez J.M, Lenhart A, Manrique-Saide P, Vazquez-Prokopec GM. Commercial Aerosolized Insecticides Can Serve as a Strong Selection Force for Pyrethroid-Resistance in *Aedes Aegypti*. *66<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Baltimore, MD, November 7-10, 2017.*
- 2016      ξKoval W., **Vazquez-Prokopec GM.** Modelling Population Dynamics of the Vector *Culex pipiens* in the Atlanta Urban Environment. *65<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 13-17, 2016.*
- ‡Gray L, Dzib-Flores S, Medina-Barreiro A, Manrique-Saide P, Lenhart A.,**Vazquez-Prokopec GM.** Efficacy and Influence of Consumer-Based Household Aerosol Sprays against *Aedes aegypti* in Highly Pyrethroid-Resistant Communities. *65<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 13-17, 2016.*
- ‡Witter S, McMillan J, Koval W, **Vazquez-Prokopec GM.** The Impact of Sociodemographic Factors on *Aedes albopictus* Distribution and Abundance in Atlanta, Georgia. *65<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 13-17, 2016.*
- ψMcMillan JR, Blakney R, Mead D, Witter S, Gray L, Koval W, **Vazquez-Prokopec GM.** Experimental perturbations of *Culex restuans* populations and their effect on West Nile virus transmission by members of the *Culex pipiens* complex. *65<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 13-17, 2016.*
- ψGrossman M, Uc-Puc V, Flores A, Manrique-Saide P, **Vazquez-Prokopec GM.** Kdr mutations confer fitness cost and competitive disadvantage in field populations of *Ae. aegypti*. *65<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 13-17, 2016.*
- 2015      ψGrossman M, Lenhart A, Manrique-Saide P, **Vazquez-Prokopec GM.** Fine-scale patterns of insecticide resistance in *Aedes aegypti* populations in Yucatan, Mexico. *64<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia Oct 23-26, 2014.*
- 2014      Gillespie TR., Parsons MB, Lonsdorf EV, Travis D, Lipende I, Gilagiza B, Kamenya S, Pintea L, **Vazquez-Prokopec GM.** Identifying hotspots for zoonotic transmission: quantifying fine-scale movement of domesticated animals relative to chimpanzees at gombe stream national park, Tanzania. *XXV International Primatological Society meeting, Hanoi, Vietnam. 11-16 August 2014.*

- Vazquez-Prokopec GM.**, ‡LaCon G, Morrison AC, Astete H, Stoddard ST, Paz-Soldan VA, Elder JP, Halsey ES, Scott TW, Kitron U, Shifting patterns of *Aedes aegypti* fine scale spatial clustering in Iquitos, Peru. *63<sup>rd</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans Nov 2-6, 2014.*
- ψGuagliardo, SA, Lee Y, Wong Y, Chu Y, Astete H, **Vazquez-Prokopec GM**, Scott TW, Kitron U, Stoddard S. *Aedes aegypti* Population Structure Is Driven By Boat Traffic In The Peruvian Amazon. *63<sup>rd</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans Nov 2-6, 2014.*
- 2013** ψGrossman M., Arredondo-Jimenez J., Che-Mendoza A., Manrique-Saide P., **Vazquez-Prokopec GM**. Multi-scale assessment of the usefulness of ovitraps as entomologic indicators of dengue transmission risk. *62<sup>nd</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington, DC, November 14, 2013.*
- 2012** Reiner, Jr. RC, Stoddard ST, **Vazquez-Prokopec GM**, Astete H, Sihuincha M, Stancil JD, Kochel TJ, Halsey E, Kitron U, Morrison AC, Scott TW. Estimating long-term *Aedes aegypti* abundance in Iquitos, Peru using a novel, spatially-explicit smoothing method. *61<sup>st</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 12, 2012.*
- ψGuagliardo SA, LaCon G, Morrison AC, Astete H, **Vazquez-Prokopec GM**, Kitron U. Geographic expansion of *Aedes aegypti* along an urban-rural gradient in the Peruvian Amazon. . *61<sup>st</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 12, 2012.*
- ψMcMillan JR, Marcet PL, Kitron U, **Vazquez-Prokopec GM**. Host selection, defensive behaviors and feeding success of *Culex quinquefasciatus* in experimental trials. *61<sup>st</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 12, 2012.*
- ‡Lund A, McMillan JR, Kitron U, Kelly R, Mead DG, Burkot T, **Vazquez-Prokopec GM**. Long-term impact of combined sewer overflow (CSO) remediation on water quality, mosquito abundance and West Nile virus amplification. *61<sup>st</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 12, 2012.*
- 2011** **Vazquez-Prokopec G**, Stoddard S, Paz Soldan V, Morrison A, Forshey B, Elder J, Halsey E, Sihuincha M, Kochel T, Scott T, Kitron U. Integrating human and vector movement data into dengue virus transmission networks. *60<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, PA, December 3-7, 2011.*
- ψGuagliardo S, Rinaldi P, Jones B, Morrison A, Astete H, Kitron U, **Vazquez-Prokopec G**. Quantifying the contribution of public spaces for exposure risk to *Aedes aegypti*, in Iquitos, Peru. *60<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, PA, December 3-7, 2011.*
- Stoddard S, Forshey B, Morrison A., Paz-Soldan V, **Vazquez-Prokopec G**, Astete H, Vilcarromero S, Sihuincha M, Halsey E, Elder J, Kitron U, Kochel T, Scott. Human movement determines risk of infection with dengue virus. *60<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, PA, December 3-7, 2011.*
- Bisanzio D, Mosca A, Balbo L, Kitron U, **Vazquez-Prokopec G**. A spatio-temporal Bayesian model to improve surveillance and control of WNV vectors in Piedmont, Northern Italy. *60<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, PA, December 3-7, 2011.*
- ξAccorsi E, Burkot T, Howell P, Dotson E, **Vazquez-Prokopec GM**, Kitron U. A novel system for capturing and analyzing individual and collective mosquito behaviors under controlled conditions. *60<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, PA, December 3-7, 2011.*

- Bansal S., **Vazquez-Prokopec GM**, Stoddard S., Kitron U., Grenfell B., Scott T.W. Exploring the patterns of human mobility: implications of the transmission of directly and indirectly transmitted pathogens. *Epidemics*2.
- Vazquez-Prokopec GM**, Kitron U., Ritchie S.A. Combining Surveillance Data With Statistical and Mathematical Models to Improve the Understanding of Dengue Virus Epidemic Spread Within Tropical Urban Environments. *A Re-Emerging Challenge: New Opportunities for Dengue Research Collaboration*, sponsored by the National Institute of Allergy and Infectious Diseases (NIAID), San Juan, Puerto Rico, February 15-18, 2011.
- 2010 **Vazquez-Prokopec GM**, Steven T. Stoddard, Valerie Paz-Soldan, Amy C. Morrison, John P. Elder, Tadeusz J. Kochel, Thomas W. Scott and Uriel Kitron. Using human movement data to derive dengue virus transmission networks. *59<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 3-7, 2010.*
- ‡Shirin Jabbarzadeh, Gregory M. Decker, William A. Galvin, Thomas R. Burkot, Rosmarie Kelly, Daniel G. Mead, Uriel Kitron., **Vazquez-Prokopec, GM**. Effects of Combined Sewer Overflows on Water Quality and *Culex quinquefasciatus* (Diptera: Culicidae) Abundance in Urban Atlanta. *59<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, November 3-7, 2010.*
- Ritchie S.A., **Vazquez-Prokopec GM**. The 2009 Cairns dengue epidemic: Our perfect storm. *9<sup>th</sup> Mosquito Control Association of Australia, Sept 12-15, 2010.*
- Bertolotti L., Bisanzio D., Cerutti F., Mosca A., Balbo L., **Vazquez-Prokopec GM.**, Kitron U., Giacobini M. Evaluating risk of introduction of WNV in Eastern Piedmont, Northern Italy. *Emerging Vector-borne diseases in a changing European environment (EDEN) meeting, Montpellier 10-12 May, 2010.*
- 2009 **Vazquez-Prokopec GM**, Stoddard S, Paz-Soldan V, Morrison A, Vasquez-Belchoir J, Elder J, Scott TW, Kitron U. Usefulness of commercially available GPS data-loggers for tracking human movement and risk of dengue virus infection. *58<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington, DC, November 18-22, 2009.*
- Vazquez-Prokopec GM**, Ritchie SA, Hanna J, Kitron U. Spatio-temporal pattern of dengue virus spread in urban Cairns, Australia. *58<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington, DC, November 18-22, 2009.*
- Vazquez-Prokopec GM**, Vanden Eng J, Kelly R, Mead D, Kolhe P, Burkot T, Kitron U. Spatial clustering of West Nile Virus infection is associated with Combined Sewer Overflow creeks in urban Atlanta, Georgia. *58<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington, DC, November 18-22, 2009.*
- 2008 Paz-Soldan VA, Stoddard S, Morrison A, Elder J, **Vazquez-Prokopec GM**, Kitron U, Scott T. Using GPS technology to study disease transmission: What do potential study participants think about this? *57<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans, USA. December 7-11, 2008.*
- Vazquez-Prokopec GM**, Spillmann C., Zaidenberg M., Kitron U., Gürtler R.E. Cost-effectiveness of vector control strategies against *Triatoma infestans* in Northwestern Argentina. *57<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans, USA. December 7-11, 2008.*
- 2007 **Vazquez-Prokopec GM**, Spillmann C., Zaidenberg M., Gürtler R.E., Kitron U. Determinants of *Triatoma infestans* infestation clustering in rural communities of Moreno Department, Northwestern Argentina. *56<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, USA. November 4-8, 2007.*
- Gürtler R.E., Cardinal M.V., Ceballos L.A., Piccinali R.V., **Vazquez-Prokopec GM**, Marcet P.L., Schachter-Broide J., Cecere M.C., Lauricella M.A., Dujardin J.P., Kitron U. Vigilancia de *Triatoma infestans* y transmisión de *Trypanosoma cruzi* en habitats domésticos y silvestres en

- un área rural del norte de Argentina. *Taller del Cono Sur "Actualización de la Tripanosomiasis Americana"*, Asunción, Paraguay, April 25-27, 2007.
- 2006** Cecere M.C., **Vazquez-Prokopec GM**, Gürtler R.E., Kitron U. Effectiveness of community-based selective insecticide spraying on reinfestation by *Triatoma infestans* in northwestern Argentina. Poster presentation. 55<sup>th</sup> *Annual Meeting of the American Society of Tropical Medicine and Hygiene*, Atlanta, USA. November 12-16, 2006.
- Vazquez-Prokopec GM**, Spillmann C., Zaidenberg M., Kitron U., Gürtler R. Effects of a horizontal vector control strategy on *Triatoma infestans* infestation and Chagas' disease transmission in rural northwestern Argentina. Poster presentation. 55<sup>th</sup> *Annual Meeting of the American Society of Tropical Medicine and Hygiene*, Atlanta, USA. November 12-16, 2006.
- 2005** Ceballos L.A., **Vazquez-Prokopec GM**, Cardinal M.V., Orozco M.M., Cortinas R., Kitron U., Gürtler R.E. Variación en la prevalencia de infección de *Trypanosoma cruzi* en mamíferos silvestres de áreas rurales del noroeste de Argentina. *XX Reunión de la Sociedad Argentina de Protozoología*. 17-19 Octubre, 2005, Mendoza, Argentina.
- Ceballos L.A., **Vazquez-Prokopec GM**, Cardinal M.V., Orozco M.M., Cortinas R., Kitron U., Gürtler R.E. Variations in prevalence of infection by *Trypanosoma cruzi* in sylvatic mammals of rural Northwestern Argentina. *54th Annual Meeting of the American Society of Tropical Medicine and Higiene*. Washington, DC, USA. December 11-15, 2005.
- Vazquez-Prokopec GM**, Ceballos L.A., Marcet P.L., Cecere M.C., Cardinal M.V., Kitron U., Gürtler R.E. Seasonal variations in active dispersal of natural populations of *T. infestans* (Hemiptera:Reduviidae) in rural Northwestern Argentina. *54th Annual Meeting of the American Society of Tropical Medicine and Higiene*. Washington, DC, USA. December 11-15, 2005.
- Cecere M.C., **Vazquez-Prokopec GM**, Gürtler R.E., Kitron U. Spatio-temporal patterns of reinfestation by *Triatoma infestans* following insecticide spraying in neighbouring communities in northwestern Argentina. *54th Annual Meeting of the American Society of Tropical Medicine and Higiene*. Washington, DC, USA. December 11-15, 2005.
- Vazquez-Prokopec GM**, Cecere M.C., Canale D.M., Gürtler R.E., Kitron U. Spatio-temporal patterns of reinfestation by *Triatoma guasayana* (Hemiptera : Reduviidae) in a rural community of north-western Argentina. Oral presentation. *International Congress of Vector Ecology*. Reno, USA. October 2-7, 2005.
- 2004** Cecere M.C., Gürtler R.E., **Vazquez-Prokopec GM**, Kitron U. Patrón espacio-temporal de la reinfestación por *Triatoma infestans*, vector del Mal de Chagas, en áreas rurales del noroeste argentino. Pp 451. *II Reunión Binacional de Ecología, XXI Reunión Argentina de Ecología, XI Reunión de la Sociedad de Ecología de Chile*. Mendoza, Argentina, October 31- November 5, 2004.
- Gürtler R.E., Cecere M.C., Schachter-Broide J., **Vazquez-Prokopec GM**, Kitron U. Eco-Epidemiology of Chagas Disease in Northwestern Argentina: application of fine resolution satellite data and wing geometric morphometry to spatial analysis and control. Pp. 192. *IX European Multicolloquium of Parasitology*. Valencia, Spain, July 18-23, 2004.
- Cecere M.C., **Vazquez-Prokopec GM**, Gürtler R.E., Kitron U. Temporal-spatial analysis of reinfestation by *Triatoma infestans* (Hemiptera: Reduviidae) after blanket insecticide spraying in a rural community, Argentina. *IX European Multicolloquium of Parasitology*. Valencia, Spain, July 18-23, 2004.
- Vazquez-Prokopec GM**, Cecere M.C., Canale D.M., Gürtler R.E., Kitron U. Spatial patterns of community reinfestation by *Triatoma guasayana* (Heteroptera: Reduviidae) in rural northwestern Argentina. *IX European Multicolloquium of Parasitology*. Valencia, Spain, July 18-23, 2004.
- Cecere M.C., Gürtler R.E., **Vazquez-Prokopec GM**, Kitron U. Un Sistema de Información Geográfica para el control y vigilancia de *Triatoma infestans*, vector del Mal de Chagas, en áreas rurales del noroeste argentino. Pp 76. *XX Reunión Científica Anual. Sociedad Argentina de Protozoología*, Rosario, Argentina. May 26-28, 2004.

- Vazquez-Prokopec GM**, Cecere M.C., Canale D.M., Gürtler R.E., Kitron U. Patrón espacial de la reinfestación de una comunidad por *Triatoma guasayana* (Heteroptera: Reduviidae) en el Noroeste de la Argentina. Pp 95. *XX Reunión Científica Anual. Sociedad Argentina de Protozoología, Rosario, Argentina. May 26-28, 2004.*
- 2003** Kitron U, Clennon J, Gürtler R, King C, Cecere C, **Vazquez-Prokopec GM**, Thornhill J, Beck L. Application of fine resolution satellite data to spatial analysis and control of infectious diseases: Chagas disease in Argentina and Schistosomiasis in Kenya. *Interamerican Workshop on the Use of Remote Sensing to Control Infectious Diseases. Rio de Janeiro, Brasil, November 19-21, 2003.*
- Cecere M.C., **Vazquez-Prokopec GM**, Gürtler R.E., Kitron U. Aplicación de Sistemas de Información Geográfica, imágenes satelitales y estadística espacial para estudiar la ecología y control de *Triatoma infestans*. *XIX Reunión Científica Anual. Sociedad Argentina de Protozoología. Chascomus, Argentina, June 26- 28, 2003.*
- Lauricella M.A., Cardinal M.V., Marcel P.L., Ceballos L.A., **Vazquez-Prokopec GM**, Gürtler R.E. Seroprevalencia y aislamiento de *Trypanosoma cruzi* a partir de mamíferos y triatomíneos domésticos o peridomésticos en el noroeste argentino. *XIX Reunión Científica Anual. Sociedad Argentina de Protozoología. Chascomus, Argentina, June 26- 28, 2003.*
- Vazquez-Prokopec GM**, Ceballos L.A., Gürtler R.E., Kitron U. Dispersión activa de *Triatoma infestans* en el noroeste de Argentina. *XIX Reunión Científica Anual. Sociedad Argentina de Protozoología. Chascomus, Argentina, June 26- 28, 2003.*
- 2002** Marcet P., Ceballos L.A., **Vazquez-Prokopec GM**, Cecere M.C., Gürtler R.E. Estado nutricional y frecuencia de alimentación de *Triatoma guasayana* y *Triatoma garciabesi* (Heteroptera, Reduviidae) en peridomicilios rurales del noroeste de la Argentina. pp. 449. *V Congreso Argentino de Entomología. Buenos Aires, Argentina, 18-22 de marzo de 2002.*
- Ceballos L.A., **Vazquez-Prokopec GM**, Cecere M.C., Gürtler R.E. Estado nutricional, frecuencia de alimentación y probabilidad de vuelo de *Triatoma infestans* (Heteroptera, Reduviidae) en ecotopos peridomésticos rurales del noroeste argentino. Buenos Aires, 18-22 de marzo de 2002. pp. 431. *V Congreso Argentino de Entomología. Buenos Aires, Argentina, 18-22 de marzo de 2002.*
- Vazquez-Prokopec GM**, Ceballos L.A., Cecere M.C., Gürtler R.E. Variación estacional de las condiciones microclimáticas del hábitat domiciliario y peridoméstico de *Triatoma infestans* (Hemiptera: Reduviidae) en el noroeste de Argentina pp. 471. *V Congreso Argentino de Entomología. Buenos Aires, Argentina, 18-22 de marzo de 2002.*
- 2001** Gürtler R.E., Cecere M.C., **Vazquez-Prokopec GM**, Ceballos L.A., Kitron U. Spatial determinants of household infestation by *Triatoma infestans*, vector of Chagas disease in three villages in Argentina. *Annual meeting of the Entomological Society of America. Los Angeles, USA, December 10-15, 2001*
- Ceballos L.A., **Vazquez-Prokopec GM**, Cecere M.C., Gürtler R.E. Estado nutricional y frecuencia de alimentación de *Triatoma infestans*, vector del Mal de Chagas, en ecotopos peridomésticos: resultados preliminares. Pp. 78. *I Reunion Binacional de Ecología. XX Reunion Argentina de Ecología. X Reunion de la Sociedad de Ecología de Chile. Bariloche, Argentina, 10-15 April, 2001.*
- 2000** Ceballos L.A., **Vazquez-Prokopec GM**, Stariolo R., Canale D.M., Gürtler R.E. Ensayo de una ovitrampa para *Triatoma infestans* en corrales experimentales bajo condiciones naturales. *Medicina 60(3): 49 XVIII Reunión de la Sociedad Argentina de Protozoología y Enfermedades Parasitarias, y II Congreso Argentino de Redes de Laboratorio, Huerta Grande, Argentina, October 25-28, 2000 .*
- Vazquez-Prokopec GM**, Ceballos L.A., Stariolo R., Canale D.M., Gürtler R.E. Uso de corrales experimentales para estudiar la dinámica poblacional de *Triatoma infestans* (hemiptera: reduviidae) bajo condiciones naturales. *Medicina 60(3): 49. XVIII Reunión de la*



*Sociedad Argentina de Protozoología y Enfermedades Parasitarias, y II Congreso Argentino de Redes de Laboratorio, Huerta Grande, Argentina, October 25-28, 2000 .*

Gürtler R.E., **Vazquez-Prokopec GM**, Ceballos L., Lund Petersen C., Salomón O.D. A longitudinal paired trial of two sensing devices for detecting peridomestic populations of *Triatoma infestans* (Hemiptera: Reduviidae) in rural northwestern Argentina. Abstracts book II trabajo N° 2925 pp. 738. *XXI International Congress of Entomology, Foz do Iguaçu, Brazil , August 20-26, 2000.*

**1999** Gürtler R.E., **Vazquez-Prokopec GM**, Ceballos L., Lund Petersen C., Salomón O.D. Ensayo de campo de un sensor peridoméstico para detectar la presencia de *Triatoma infestans*. Medicina vol 59- supl III, 1999. *XVII Reunión de la Sociedad Argentina de Protozoología y Enfermedades Parasitarias, y I Congreso Argentino de Redes de Laboratorio, Colón, Argentina, Setember 30 to October 2, 1999.*

### Scientific Meetings and Workshops (Ψparticipant but not presenter):

**2018** **World Health Organization/Pan-American Health Organization.** Workshop for the development of operational scenarios for the control of urban *Aedes aegypti*. “Métodos de estratificación de riesgo para apoyar la generación de escenarios operativos”. Los Cabos, Baja California Sur, Mexico. May 31-June 1, 2018.

**2017** **World Health Organization.** Scientific Adviser. TDR/SDC/IDRC/STPH-funded Workshop: “Multi-Sectoral Approaches for the Prevention and Control of Malaria and Vector-Borne Diseases: Current knowledge and Research Gaps and Priorities”. June 26-28, 2017. Geneva, Switzerland. Presenter on the role of human movement and environmental change on vector-borne disease control.

**ΨWorld Health Organization.** Panel member. Scientific Workshop: “Efficacy trials of ZIKV Vaccines: endpoints, trial design, site selection”. June 1-2, 2017. Geneva, Switzerland. Included as lead entomologist advising on the design of clinical trials for Zika vaccination.

**2016** **ΨWorld Health Organization.** Emergency response consultation on new vector control tools for control of Zika virus. March 14-15, 2016. Geneva, Switzerland. Talked about contact tracing and indoor residual spraying for dengue epidemic management.

**Pan-American Health Organization.** “Working group on novel alternatives for vector control in Brazil”. May 10-11, 2016. Brasilia, Brazil.

**Brazil’s Ministry of Health.** International Meeting for the validation of novel alternatives to *Ae aegypti* control in the national program of dengue virus in Brazil. Brasilia 17-18 Feb, 2016 (meeting organized by Brazil’s Health Minister to identify novel tools to contain Zika virus epidemics).

**2015** **ΨWhite House Office of Science and Technology Policy.** Integrating Prediction and Forecasting Models for Decision-Making: Dengue Epidemic Prediction. White House Office of Science and Technology Policy (2015). Panel Member and Coordinator of one Session.

**ΨThe Nature Conservancy.** Atlanta Cities Project, Second Collaborative Planning Workshop. The Nature Conservancy in Georgia. October 13, 2015.

**ΨPartnership for dengue control (PDC)** strategic meeting. Annecy, France, February 1-2, 2015.

**DENTARGET** meeting to identify models for spatially targeting interventions against dengue. Natal, Brazil, April 13-17, 2015.

- 2014  $\Psi$  **White House Office of Science and Technology Policy.** Integrating Prediction and Forecasting Models for Decision-Making: Dengue Epidemic Prediction. White House Office of Science and Technology Policy (2014)
- 2011 **Organizer** of Scientific Workshop “Quantification of Fine Scale Human Movement: Revisiting statistical and mathematical approaches” sponsored by US NIH/DoD Research and Policy for Infectious Disease Dynamics (RAPIDD) initiative. Atlanta, GA, November 16-17, 2011.
- Participant.** A Re-Emerging Challenge: New Opportunities for Dengue Research Collaboration, sponsored by the National Institute of Allergy and Infectious Diseases (NIAID), San Juan, Puerto Rico, February 15-18, 2011.
- 2010  $\Psi$  **National Science Foundation and the Army Research Office.** Specialist meeting: Spatio-Temporal Constraints on Social Networks. Santa Barbara, CA, December 13-14.
- $\Psi$  **Participant.** Scientific Workshop on Linking Large-scale Spatiotemporal Data to Process-based Models of Vector-borne Disease organized by the US NIH/DoD Research and Policy for Infectious Disease Dynamics (RAPIDD) initiative. Washington, DC, February 22-23.
- $\Psi$  **Participant.** Scientific Workshop on Movement and Spatial Dynamics of Mosquito-Transmitted Diseases organized by the US NIH/DoD Research and Policy for Infectious Disease Dynamics (RAPIDD) initiative. Washington, DC, January 25-27.
- 2009 **Bill and Melinda Gates Foundation** annual project meeting on the application of mathematical models to assess the population dynamics of Wolbachia-transformed *Aedes aegypti* mosquitoes. Cairns, Australia, December 18-22.
- 2005 **National Science Foundation.** Emerging Infectious Diseases Network annual meeting. Washington DC, December 16, 2005.

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### Consultancies

- 2013-2015 **Research Triangle Institute (RTI).** Master contract#13034. Scope of work: Analyze data on insecticide resistance in *Anopheles gambiae* mosquitoes throughout Africa. Project Manager: Dr. Richard Reithinger. Vice President, Global Health, RTI.

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### Awards & Distinctions

- 2021 **Fellow** from the Research Corporation for Science Advancement via the Scialog:Mitigating Zoonotic Threats program. RCSA is the oldest foundations supporting the sciences and as fellow I join a large number of distinguished early-career scientists in STEM.  
<https://rescorp.org/>
- 2020 **Winship Distinguished Research Professor in Environmental Sciences.** Named Chair Appointment by Emory University.

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### Teaching Experience

#### Current courses

*Regularly taught*

Instructor “**Environmental Change & Health**”. ENV5140 (Fall 2019, Spring 2022, 2023). Course developer and only instructor.

- Instructor. **“Urban Ecology and Development”**. ENVS459-ENVS559-MDP520 (Spring semester, 2014-2016, even years thereafter). Course developer and only instructor. Cross-listed with the Masters in Development Practice (MDP) and graduate section for ENVS MSc program.
- Instructor. **“Population Ecology”**. ENVS385-ENVS585 (Spring 2017, odd years thereafter). Course developer and only instructor. Graduate section for ENVS MSc program.
- Instructor. **“Introduction to Undergraduate Research”**. ENVS299, ENVS399, ENVS499. (all semesters, 2012-present). Involves undergraduate students in hands-on mentored research (see Student Mentoring for list of mentees by year).

*Not regularly taught*

- Instructor **“Quantitative Methods in Environmental Sciences”** ENVS260 (Spring 2021). Course developer and only instructor.
- Instructor. **“Living in the Anthropocene”**. ENVS120 (Fall 2017). Course instructor.
- Instructor. **“Research Design and Methods in Environmental Studies”**. ENVS460 (Fall semester, 2013-2014). Co-developed and taught with Eri Saikawa (ENVS).
- Instructor. **“Spatial Analysis in Disease Ecology”**. ENVS483 – ENVS583 - EH 583. (Spring semester, 2009-present with exception of Spring 2017). Course developer and main instructor (lab assistant, Julie Clennon, RSPH). Cross-listed with Environmental Health (RSPH) and graduate section for ENVS MSc program.

### **Guest Lectures (courses at Emory)**

- ENVS seminar series (ENVS), Department of Environmental Sciences, Emory University (Fall 2015, 2017).
- Ecology (IBS-595): Population Biology, Ecology and Evolution Graduate course. (Fall 206, 2017).
- Sustainable Water Resources (ENVS 385), Department of Environmental Sciences, Emory University (Spring 2015).
- Ecosystem Ecology (ENVS240), Department of Environmental Sciences, Emory University (Fall, 2014).
- Sustainability Foundations (IDS206), (Fall 2012, 2013).
- Environmental Determinants of Infectious Disease (EHS750). Rollins School of Public Health, Emory University. (Spring semester, 20010-2021).
- Quantitative Methods in ENVS (ENVS299). (2011-2016).
- Urbanization and Inequities: Pathways for Slums in the 21st Century (GRAD700R, University-wide course). (Spring 2015).
- Network Science: Theory, Methods and Applications (GRAD700R, University-wide course). (Spring 2013).
- Geographic Information Systems for Public Health (INFO530). (Fall 2011, Spring 2015).
- M2M Seminar (M2M700) “Bridging Field, Lab and Theory to Understand the Ecology of Infectious Diseases”. (Fall 2016).
- Human and Natural Ecology (ENVS120), Department of Environmental Sciences, Emory University (Fall, 2014).

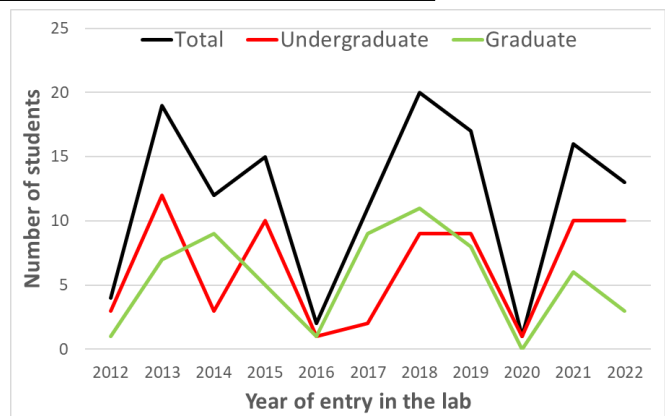
### **Workshops Taught**

Workshop Instructor **“Workshop for the elaboration of risk maps to support the targeted control of *Aedes aegypti* in urban areas”**. Supported by the Pan-American Health Organization/World Health Organization”. October 9-12, 2023. <https://www.mspps.gov.py/portal/28356/se-inicia-capacitacion-en-mapas-de-riesgo-para-el-control-de-las-arbovirosis.html>

- Workshop Instructor **“Diplomatura Manejo Integrado de Vectores de Interés Sanitario”/”Certificate in Integrated Vector Management for Public Health”**. Argentine Ministry of Health, Buenos Aires, Argentina. Virtual course, August 1-20, 2021.
- Workshop Instructor **“Workshop for the elaboration of risk maps to support the targeted control of *Aedes aegypti* in urban areas”**. Supported by the Pan-American Health Organization/World Health Organization. Zoom Virtual course, 22-26 February, 2021.
- Workshop Instructor **“Workshop for the elaboration of risk maps to support the targeted control of *Aedes aegypti* in urban areas”**. Supported by the Pan-American Health Organization/World Health Organization. San Jose, Costa Rica, March 11-15, 2019.
- Workshop Instructor **“Sistemas de Información Geográfica y Análisis Espacial en Salud Publica”** (in Spanish). Autonomous University of Yucatan (UADY), Merida, Mexico, June 5-6, 2016.
- Workshop Instructor **“Movimiento humano, exposición a dengue y rastreo de casos para mejorar la vigilancia entomoviológica”** (in Spanish). 14vo. Curso Internacional de Dengue, La Havana, Cuba, August 21, 2015.
- Workshop Instructor **“Sistemas de Información Geográfica y Análisis Espacial en Salud Publica”** (in Spanish). Autonomous University of Yucatan (UADY), Merida, Mexico, June 2-6, 2014.
- Workshop Instructor **“Spatial Analysis of GIS Data – Applied Statistics for Public Health and Environmental Studies”**. Kitron U and Vazquez-Prokopec GM (Instructors). Department of Environmental Studies, Emory University. Atlanta, 10-14 March, 2008.
- Workshop Instructor **“Uses and Applications of Geographic Information Systems”**. Gurtler RE, Cecere MC, Vazquez-Prokopec GM (Instructors). Organizers: Panamerican Health Organization, School of Exact and Natural Sciences – UBA, and University of Illinois at Urbana-Champaign. Buenos Aires, Argentina, August 16-20, 2004.

## Student Mentoring

I direct a highly productive, diverse, and talented group of undergraduate and graduate students contributing to the research mission of my lab. A total of 130 students have participated in my lab since 2012 (54% undergraduate). **On any given semester, an average number of 14 students participate in research activities** (volunteering or enrolled in research for credit classes). **The image on the right shows the time series of student involvement by semester since 2012, and below I only list students enrolled for credit.**



### Undergraduate Students

- 2023** Undergraduate Research Advisor (ENVS299-499): Umerani, Amal; English, Adriana; Cheng, Jessica.  
 Undergraduate Research Advisor (Biol499): Kieran Aguirre.  
 Undergraduate Research Advisor (QTM): Joyce Wang.
- 2022** Undergraduate Research Advisor (ENVS299-499): Pilchik, Josie; Scott, Naturi; English, Adriana; Cheng, Jessica; Roeske, Bella; Umerani, Amal; Grecni, Eliza Carey; McCarthy, Clare; Phillips, Erin.
- 2021** Undergraduate Research Advisor (Biol499): Luiza Karrer.

- Undergraduate Research Advisor (ENVS299-499):** Ellie Fausset, Claire McCarthy, Kahn Erica.
- 2020 **Undergraduate Research Advisor (ENVS299-499):** Zhuoran Wei, Haaris Jamal, Luiza Karrer, Nick Chaundrhy, Scott Herron.
- 2019 **Undergraduate Research Advisor (ENVS299-499):** Zhuoran Wei, Talia Roma, Haaris Jamal, Luiza Karrer, Elif Killic.
- 2018 **Biol499 Mentor. Stephanie Jiang.** Survey of Pathogens and Environmental Drivers of Infections in Ticks Across Georgia.  
**Biol499 Mentor.** Paula Fernandez. Project Title: “Determining the lethal and direct/sexually-transmitted sterilizing effects of pyriproxyfen on *Aedes albopictus*”.
- 2017 **Honors Thesis Advisor.** William Koval. Thesis title: “The interactive effect of environmental stochasticity and resource driven intraspecific competition on *Culex quinquefasciatus* (Diptera: Culicidae) larval productivity”. (Grade: Highest Honors).  
**Biol499 Mentor.** Paula Fernandez. Project Title: “Determining the lethal and direct/sexually-transmitted sterilizing effects of pyriproxyfen on *Aedes albopictus*”.
- 2016 **Undergraduate Research Advisor (ENVS299-499):** Ryan Myers, Julian Rodriguez.  
**Undergraduate Research Advisor (ENVS299-499):** Sabine Areanna, Ryan Myers, Julian Rodriguez, Stearns Dorothy, Koval William.  
**Honors Thesis Committee member:** Laila Atalia.
- 2015 **Undergraduate Research Advisor (ENVS299-499):** Ryan Myers, Alex Shim, Remy Landon, Rebecca Park, Maddy Hoeninghausen, William Kobal.
- 2014 **Undergraduate Research Advisor (ENVS299-499):** Anna Jeter, Leah Goldstein, Lucy Pyle.
- 2013 **Honors Thesis Committee member:** Kristen Cross.  
**Undergraduate Honors Thesis advisor.** Whitney Pennington. Project title: “Salmonellosis and other pathogens infecting passerine birds across an urbanization gradient”. (Grade: Highest Honors).
- 2012 **Phi Beta Kappa mentee:** Whitney Pennington.  
**Undergraduate Research Advisor (ENVS299-499):** Whitney Pennington, Lois Chang.  
**Phi Beta Kappa mentee:** Emma Accorsi.
- 2011 **Summer Undergraduate Research Program at Emory (SURE) Advisor:** Emma Accorsi (Third Prize in best summer project category).
- 2010 **Undergraduate Research Advisor (ENVS299-499):** Frances Kim, Bryant Jones, Kevin Lanza.  
**Undergraduate Honors Thesis advisor.** Parisa Nourani. Project title: “Assessing the accuracy of location-aware technologies to track human mobility patterns in economically disadvantaged urban environment”. (Grade: Highest honors).  
**Undergraduate Honors Thesis advisor.** Miho Yoshioka. Project title “Fitness effects of oviposition site selection in the mosquito *Aedes albopictus*”. (Grade: Highest honors).
- 2009 **Scholarly Inquiry and Research at Emory (SIRE):** Gouthami Rao, Ellen Hill, Abdurrahman Bouzid.

## Graduate Students

### Current PhD

- Stephanie Bellman** (EHS, MD/PhD, 2021-present), dissertation: “Transmission ecology of Heartland virus in Georgia”.
- Sebastian Duran Ahumada** (PBEE, 2020-present), dissertation: “Incompatible Insect Technique: Ecology and Reproductive Biology of Wolbachia-Based Population Suppression of *Aedes aegypti*”

- David Jimenez-Vallejos** (PBEE, 2021-present), dissertation: “Evolutionary pressure of selective insecticide applications on *Aedes aegypti* behavior”
- Xorla Occloo** (PBEE, 2019-present – co-mentored with David Civitello, Biology), dissertation: “Sustainable rice-farming practices in northern Senegal using *Azolla* spp, a multifaceted aquatic plant”.

## Past PhD

- Fabian Correa-Morales** (Universidad Autónoma de Nuevo Leon, PhD, 2018-2021).  
Dissertation: . Graduated 2021 *suma cum laude*. Desarrollo de un método rápido de rociado residual intradomiciliario para el control de *Aedes aegypti* (L) vector de los virus de dengue, Chikungunya y Zika en Mexico. *Suma cum laude*.
- Katherine Schaber** (PBEE, 2015-2019), dissertation title: “Social Networks and Vector-borne Disease Dynamics”. Graduation: 2019
- Edgar Koyoc** (Autonomous University of Yucatan, Mexico, 2016-2020), dissertation title “Population abundance of indoor *Aedes aegypti* in Merida, Mexico”.
- Joseph R. McMillan** (PBEE, 2014-2018), dissertation title: “The ecology of multiple vector species West Nile virus transmission”. Graduation: 2018.
- Marissa Grossman** (PBEE, 2013-2017), dissertation title: “Ecological dynamics of insecticide resistance maintenance and propagation in *Aedes aegypti* populations in the Yucatán State”. Graduation: June 2017.
- Sarah Guagliardo** (PBEE, co-mentored with Uriel Kitron), dissertation title: “Patterns and Mechanisms of the Geographic Expansion of *Aedes aegypti* in the Peruvian Amazon”. Graduation: March 2015.
- Michele Parsons** (PBEE, co-mentored with Thomas Gillespie), dissertation title: “Effects of Anthropogenic Disturbance on Zoonotic Pathogen Transmission in People, Wild Primates and Domesticated Animals in the Greater Gombe Ecosystem, Tanzania”. Graduation: March 2015.

## MPH/MSc (by academic year)

- 2023-2024** **MPH thesis Mentor. Seana Cleary** “Impact of COVID19 mobility changes on arbovirus transmission”  
**MPH thesis Mentor. Natalie Hobbs.** “Spatial distribution of *Trypanosoma cruzi* infection in *Triatoma dimidiata* from Yucatan, Mexico”
- 2022-2023** **MPH thesis mentor. Ellie Fausset** “Ecology of the Asian longhorned tick, *Haemaphysalis longicornis*, in Georgia”.  
**MPH thesis mentor. Leah Aeschleman** “Antibody titers of Heartland virus (HRTV) in field-collected mice from a transmission hotspot”  
**Audrey Long.** “Detection and characterization of *Rickettsia* in ticks from Georgia”
- 2021-2022** **MPH thesis mentor. Carlos Culquichicon.** “Entomological impact of targeted indoor residual spraying on *Aedes aegypti* density and age structure”.  
**Timothy Walsh.** “Environmental Drivers of *Amblyomma americanum* population densities in central Georgia, United States.”
- 2020-2021** **MPH thesis mentor. Patrick Corbel.** “Machine Learning predicts dengue severity in Merida, Mexico”.  
**MPH. Raquel Ramos.** “The effect of volatile pyrethroid insecticides on pyrethroid-resistant *Aedes aegypti* in Mérida”.

- MSc thesis mentor. Ali Perez.** “Resisting the unavoidable: impact of household insecticides in *Ae. aegypti* resistance evolution”. ENVS.
- 2019-2020 MPH. Patrick Corbel.** “Machine Learning predicts dengue severity in Merida, Mexico”. Department of Environmental Health, Rollins School of Public Health.
- MSc thesis mentor. Ali Perez.** “Resisting the unavoidable: impact of household insecticides in *Ae. aegypti* resistance evolution”. ENVS.
- 2018-2019 MPH thesis mentor. Olivia Zarella.** “Bioefficacy Evaluation of Metofluthrin Permeated Emanator as Protection Against *Aedes albopictus*”. Department of Environmental Health, Rollins School of Public Health.
- MPH thesis mentor. Ekwomadu, Uchechukwu.** “Spatial Analysis of Environmental drivers of dengue Chikungunya and Zika in Natal, Brazil”. Department of Environmental Health, Rollins School of Public Health.
- 2017-2018 MPH thesis mentor. Masato Yoshihara.** “Human mobility and dengue virus transmission in Yucatan, Mexico”. Department of Epidemiology, Rollins School of Public Health.
- MPH thesis mentor. Marissa Taylor** “Impact of insecticide resistance in *Aedes aegypti* on indoor residual spraying in Merida, Mexico”. Department of Environmental Health, Rollins School of Public Health.
- MPH thesis mentor. Connor Valenzuela.** “Spatial distribution of dengue, chikungunya and Zika viruses in Natal, Brazil”. Department of Epidemiology, Rollins School of Public Health.
- MPH thesis mentor. Dehao Chen.** “A study of zoonotic transmission dynamics of hemorrhagic fever with renal syndrome in Guangzhou, China”. Rollins School of Public Health.
- 2016-2017 MPH thesis mentor. Lyndsay Gray.** Thesis title: “Efficacy and Influence of Consumer-Based Household Aerosol Insecticides Against *Aedes aegypti* in the Context of Highly Pyrethroid-Resistant Communities”. Department of Epidemiology, Rollins School of Public Health.
- 2015-2016 MPH thesis mentor. Sarah Witter.** Thesis title: “Human biting rate by the mosquito *Aedes albopictus* in Atlanta, GA”. Department of Epidemiology, Rollins School of Public Health.
- MPH thesis mentor. Zachary Heth.** Thesis title: “Quantifying the role of fever and disease severity in ambulatory febrile patients from Iquitos, Peru”.
- 2014-2015 MPH thesis mentor. Christopher Hoover.** Thesis title: “Avian functional diversity and the risk of West Nile virus”. Department of Environmental Health, Rollins School of Public Health.
- MPH thesis mentor. Nicole Dzuris.** Thesis title: “Fitness costs associated with insecticide resistance in *Aedes aegypti* mosquitoes”. Department of Environmental Health, Rollins School of Public Health.
- MPH capstone project mentor. Jordan Smith.** Project title: “Dengue in Guatemala: a spatial analysis of sentinel surveillance data in the department of Santa Rosa”. Department of Environmental Health, Rollins School of Public Health.
- 2012-2013 MPH thesis mentor. Regan Deming.** Thesis title: “Quantifying the spatial heterogeneity of insecticide resistance in *Aedes aegypti* in five dengue endemic towns in Yucatan, Mexico”. Department of Environmental Health, Rollins School of Public Health.
- MPH research mentor. Andrea Lund.** Project title “Long term impacts of Combined Sewer Overflow systems on urban waterways of Atlanta, GA”. Graduate in Residence program. Department of Global Health, Rollins School of Public Health.

- MPH thesis mentor.** Genevieve LaCon. Thesis title “Spatial distribution of *Aedes aegypti* and risk of dengue virus transmission in urban Iquitos, Peru”. Graduate in Residence program. Department of Environmental Health, Rollins School of Public Health.
- MPH thesis mentor.** Karen Wu. Thesis title “Blood source of urban *Culex quinquefasciatus* mosquitoes”. Department of Global Health, Rollins School of Public Health.
- 2010 Project advisor.** Joseph McMillan (BSc- UGA). Project title “Host Selection and Feeding Success of *Culex quinquefasciatus* in Experimental Trials”. Performed during summer 2010.
- 2009 MPH thesis mentor.** Anu Rajasingham. Project title “Spatial analysis of malaria incidence in Papua Nueva Guinea: 2003-2007. Graduate in Residence program. Department of Environmental and Occupational Health (EOH), Rollins School of Public Health. Spring 2009.
- MPH rotation student.** Shirin Jabbarzadeh.

### Post-docs

- 2020-present **James Earnest** (PhD). Research Area. Molecular Immunology.
- 2020-2022 **Alexander Avramov** (PhD). Research Area. Computing.
- 2019-present **Oscar Kirstein** (PhD). Research Area: Medical Entomology.
- 2017-present **Yamila Romer** (MD). Research Area: Epidemiology of Arboviruses and Zoonotic Diseases
- 2017-2019 **Michael Dunbar** (MSc, PhD). Research Area: Ecology of Insecticide Resistance and Integrated Pest Management.

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## Service Activities

### Emory University

#### *Department of Environmental Sciences*

- Undergraduate Curriculum Committee.** (2013-present)
- Committee for the development of new PhD program on Socio-Environmental Sciences & Action** (2022-present).
- ENVS Faculty Search Committees.** (2019, 2022).
- Diversity Cluster Hire Search Committee member.** ENVS (2017)
- Self-study and external review Committee** (Department of Environmental Studies). (2012)

#### *Emory College of Arts and Sciences (ECAS)*

- Emory College Anti-Racism and Social Justice (ARSJ) Committee member.** (2022-present).
- Emory College Admissions Program: CORE (cultural outreach recruitment and education)**  
Faculty presenter (2019, 2021).
- ECAS Senate.** Senator (Natural Sciences representative, 2018-2021).
- ECAS Senate.** Executive Council. (2018-2020).
- ECAS Faculty Search Committees.** Biology Lecture-track search (2022). Biology Tenure-track Search (2015-2016).
- Memorandums of Understanding.** I led the signature of two MOUs between ECAS and 2 institutions:
- 1) **Pan-American Health Organization** - Framework for Cooperation in Developing Educational and Research Activities in the Field of Entomology and Vector Control. *Signed by Dean M. Elliot in September 2021.*
  - 2) **Autonomous University of Yucatan** - Framework for collaboration and student exchange between ECAS and UADY. *Signed by Provost C. Sterk in December 2015.*



### *Laney Graduate School*

**PBEE Program Director of Admissions** (2018-present)

**PBEE Executive Committee** (2013-present).

**LGS Honor Council** (2020).

**Emory PBEE PhD Qualifying Exam Committee member.** (2012-present).

**Emory IDASTP (Infectious Diseases Across Scales Training Program):** Steering Committee (2023-2026).

### *Emory University*

**Emory Global Advisory Council (2022-2025).**

**IACUC Wildlife Use Policy Subcommittee** (Emory University IACUC office) (2013-2021)

**Emory Global Health Scholar Symposium Panel Member** (2014)

**Masters in Development Practice Recruit Evaluator** (2014)

### Grant Reviewing Committees

**Emory University.** MP3 Initiative proposal evaluator (2020).

**National Institutes of Health.** Vector Biology Study Section. Reviewer (2020, 2021, 2022), Small Business Innovation Research (SBIR)(2022). Population-based Research in Vector-borne Disease Study Section (2023).

**Emory University.** Synergy Proposals. Reviewer (2020)

**Emory University.** University Research Council proposal evaluator (2018,2021).

**Emory University.** Emory Synergy Proposals evaluator (2018).

**US National Science Foundation.** Population and Community Ecology Cluster. (2013, 2016)  
Division of Environmental Biology (2021).

**National Agency for the Promotion of Scientific and Technologic Activities.** Ministry of Science, Technology and Productivity (Argentina). (2011-2014)

**Universidad de los Andes** (Colombia), Vicerrectoria de Investigacion. (2011)

### PhD Dissertation Committees

**Sandra Mendiola.** Emory University (PBEE). 2019-present.

**Travis Dynes.** Emory University (PBEE). 2015-2020.

**Trieste Musal.** Emory University (PBEE). 2014-2016.

**Sarah Guagliardo.** Emory University (PBEE). 2011-2015.

**Michele Parsons.** Emory University (PBEE). 2012-2015.

**Arthi Rao.** Georgia Tech (City and Regional Planning). 2013-2017.

### Masters and Honors thesis committee member

**Cooper Read.** Emory University (MSc in Environmental Sciences). 2022

**Jack Galaneck.** Emory University (MSc in Environmental Sciences). 2022

**Sherry Tsui.** Emory University (Biology). 2022.

**Ella Arms.** Emory University (Biology). 2022

**Olivia Milloway.** Emory University (Biology). 2021.

**Cameron Wynn.** Emory University (Biology). 2020.

**Danielle Cronowver.** Emory University (Environmental Sciences). 2020.

### Other Committees

**Invited Reviewer.** World Health Organization. Reviewer of Malaria Control Guidelines for malaria (2023). <https://www.who.int/publications/i/item/9789241508940>.

**Chair.** American Committee of Medical Entomology (2013-2017) dependent on the American

- Society of Tropical Medicine and Hygiene (ASTMH). <https://www.astmh.org/ACME.htm>
- Scientific Advisor. World Health Organization. Strategic Advisory Work of Experts in Immunization (WHO-SAGE). (2022-2025).** [https://www.who.int/groups/strategic-advisory-group-of-experts-on-immunization/working-groups/dengue\\_2022](https://www.who.int/groups/strategic-advisory-group-of-experts-on-immunization/working-groups/dengue_2022)
- External Advisory Board Member.** “Group Evaluating New Technologies for Vector Control in Mexico, 2022-2024”. CENAPRECE (Centro Nacional para la Prevencion y el Control de Enfermedades), Federal Ministry of Health, Mexico.
- Technical Scientific Advisor.** “Working Group for the Evaluation of Novel Vector Control Strategies in Brazil”. Pan American Health Organization, World Health Organization. (2016-present).
- Technical Scientific Advisor.** World Health Organization. Working group: “Multi-Sectoral Approaches for the Prevention and Control of Malaria and Vector-Borne Diseases: Current knowledge and Research Gaps and Priorities”. (2017).
- Technical Scientific Advisor.** World Health Organization. Vector Control Advisory Group (ad-hoc). (2016).
- Technical Scientific Advisor.** “US Government Accountability Office. Zika Virus Outbreak Expert Panel” at the National Academies of Sciences, Engineering and Medicine. November 9-10. (2016).

### Editorial Board Member

- 2015-present Editor.** Transactions of the Royal Society of Tropical Medicine and Hygiene. Oxford University Press.  
[http://www.oxfordjournals.org/our\\_journals/trstmh/editorial\\_board.html](http://www.oxfordjournals.org/our_journals/trstmh/editorial_board.html)

### Manuscript Reviews (2009-present)

Emerging Infectious Diseases Journal • Proceedings of the Royal Society Interface • American Journal of Tropical Medicine and Hygiene • PLoS Neglected Tropical Diseases • PLoS ONE • Acta Tropica • Journal of Medical Entomology • Journal of Vector Ecology • International Journal of Health Geographics • International Journal of Parasitology • BMC Environmental Health • BMC Infectious Diseases • Tropical Medicine and International Health • Infection, Genetics and Evolution • Environmental Research • Environmental Health • Nature.

## Research Outreach – Multimedia Presentations

- 2024** “What to know about an aggressive tick species spreading across the U.S.”. Washington Post. July 8, 2024.  
<https://www.washingtonpost.com/wellness/2024/07/08/lone-star-ticks-meat-allergy/>
- “Dengue cases are surging globally. What it means for Georgia” Atlanta Journal Constitution. July 5, 2024. <https://www.ajc.com/news/health-news/dengue-cases-are-surging-globally-what-it-means-for-georgia/SRBGPP4P5JDBFIIP2OR5OUPS7I/>
- “U.S. is seeing increased risk of dengue infections, health officials warn” NPR. June 26, 2024. <https://www.npr.org/2024/06/26/nx-s1-5020248/u-s-is-seeing-increased-risk-of-dengue-infections-health-officials-warn>
- “Travelers beware: It’s a big year for dengue” NPR. June 29, 2024.  
<https://www.npr.org/sections/shots-health-news/2024/06/29/g-s1-7214/dengue-risk-vacation-travel>
- “Tick Exposure in Georgia”. Consumer Reports, March 29<sup>th</sup>, 2024.  
<https://www.consumerreports.org/health/outdoor-safety/lone-star-tick-faq-a6080992194/>

**“Tracking ticks in Georgia to help monitor emerging diseases”** Emory eScienceCommons. Apr 9, 2024.

<http://esciencecommons.blogspot.com/2024/04/tracking-ticks-in-georgia-to-help.html>

**“Here’s where the tick that causes meat allergy is found in Georgia”** . Atlanta Journal Constitution. April 9, 2024. <https://www.ajc.com/news/georgia-news/heres-where-the-tick-that-causes-meat-allergy-is-found-in-georgia/CTQJTPXF7VFGDJ6P5NRRUAPQ3Q/>

2023

**“Big city mosquitoes are a big problem — and now a big target”** NPR. December 4, 2023. <https://www.npr.org/sections/goatsandsoda/2023/12/04/1217120913/big-city-mosquitoes-are-a-big-problem-and-now-a-big-target>

**“Building boom boosts malaria-carrying, invasive mosquito in Ethiopia”** Emory eScienceCommons. December 5, 2023.

<http://esciencecommons.blogspot.com/2023/12/building-boom-boosts-malaria-carrying.html>

**“Mosquito-borne diseases”** Emory ECHO Podcast. <https://scdp-echo-podcasts.simplecast.com/>.

**“West Nile Virus//Mosquito Borne Diseases”**

<https://howonearthradio.org/archives/9166> . Aired at KGNU Boulder-Denver Metro area radio (88.5FM 1390AM).

**“Hidden 'super spreaders' spur dengue fever transmission”** Emory

eScienceCommons. <http://esciencecommons.blogspot.com/2023/03/hidden-super-spreaders-spur-dengue.html>

Article showcased in 22 news sources:

<https://oxfordjournals.altmetric.com/details/141989789/news>

2022

**“What to know about Heartland virus, a new tick-borne disease spreading through the Midwest and southern US”** INSIDER. <https://www.insider.com/new-tick-borne-disease-south-and-midwest-heartland-virus-2022-6>

**“Ticks Are Spreading in the US—and Taking New Diseases With Them”** WIRED. <https://www.wired.com/story/ticks-are-spreading-in-the-us-and-taking-new-diseases-with-them/>

**“Emerging Tick-Borne Pathogen Has Spread to State of Georgia”** MedScape. April 20, 2022. <https://www.medscape.com/viewarticle/972416>

**“Circula un virus que podría ser mortal en garrapatas de Georgia: científicos de Emory”** Univision Atlanta. Aired 3/17/2022. <https://www.univision.com/local/atlanta-wuvg/heartland-virus-mortal-transmiten-garrapatas-humanos-circula-georgia>

**“These small ticks can cause big problems”** 11 Alive news. Aired 3/17/2022 <https://www.11alive.com/video/news/local/these-small-ticks-can-cause-big-problems/85-acb6b099-c2df-42f5-96a8-f1163d885f69>

**“Lone star tick, linked to Heartland virus, now found in 6 states”** NBC News.

<https://www.nbcnews.com/health/health-news/lone-star-tick-linked-heartland-virus-people-found-georgia-rcna20328>

**“Research shows new reasons to watch for ticks in Georgia”** WABE:

<https://www.wabe.org/research-shows-new-reasons-to-watch-for-ticks-in-georgia/>

**“Georgia Ticks Found To Carry New, Potentially Deadly Virus”** NewsWeek:

<https://www.newsweek.com/georgia-lone-star-tick-heartland-virus-disease-deadly-1688666>

- 2021 **“A Pivotal Mosquito Experiment Could Not Have Gone Better”** The Atlantic. Ed Yong. <https://www.theatlantic.com/science/archive/2021/06/dengue-mosquitoes-defanged/619161/>  
**“Zeroing in on a mosquito menace”**. Emory University Media. <https://news.emory.edu/features/2021/06/esc-mosquitoes/index.html>  
**“Mapping dengue hot spots pinpoints risks for Zika and chikungunya”**. Emory eScienceCommons: [https://news.emory.edu/stories/2021/07/esc\\_mapping\\_dengue\\_hot\\_spots/campus.html](https://news.emory.edu/stories/2021/07/esc_mapping_dengue_hot_spots/campus.html)
- 2019 **“New book details the battle between man and mosquitoes”** Interview for the program ‘CBS This Morning’. Aired Aug 3, 2019. <https://www.youtube.com/watch?v=11korGjQA-Q&feature=youtu.be>  
**“Protection from mosquitoes key to avoid West Nile virus”** Emory eScienceCommons. <https://esciencecommons.blogspot.com/2019/08/protection-from-mosquitos-key-to-avoid.html>
- 2018 **“Dengue 'hot spots' provide map to chikungunya and Zika outbreaks”**  
<http://esciencecommons.blogspot.com/2018/05/dengue-hot-spots-provide-map-to.html>
- 2017 **“West Nile Virus Making Its First Appearances of the Season”**. Healthline News. <http://www.healthline.com/health-news/west-nile-virus-making-its-first-appearances-of-the-season#4>  
**“Mutant mosquitos make insecticide-resistance monitoring key to controlling Zika”**. Emory eScienceCommons. <http://esciencecommons.blogspot.com/2017/06/mutant-mosquitos-make-insecticide.html>  
**“Scientists Test New Ways to Outwit Mosquitoes”**. AAAS web site. <http://www.aaas.org/news/scientists-test-new-ways-outwit-mosquitoes>  
**“Contact tracing and targeted insecticide spraying can curb dengue outbreaks”**. National Science Foundation Media Release. [https://www.nsf.gov/news/news\\_summ.jsp?cntn\\_id=190909&org=NSF&from=news](https://www.nsf.gov/news/news_summ.jsp?cntn_id=190909&org=NSF&from=news)  
**“Contact tracing, with indoor spraying, can curb dengue outbreaks”** eScienceCommons (Emory University). <http://esciencecommons.blogspot.com/2017/02/contact-tracing-with-indoor-spraying.html>
- 2016 **“In the face of Zika, Southeast Asia sees grounds for cautious hope”**. October 18, The Washington Post. [https://www.washingtonpost.com/world/asia\\_pacific/in-the-face-of-zika-southeast-asia-sees-grounds-for-cautious-hope/2016/10/14/3b577b10-8f15-11e6-a6a3-d50061aa9fae\\_story.html#comments](https://www.washingtonpost.com/world/asia_pacific/in-the-face-of-zika-southeast-asia-sees-grounds-for-cautious-hope/2016/10/14/3b577b10-8f15-11e6-a6a3-d50061aa9fae_story.html#comments)  
**“Chasing fire: Fever and human mobility in an epidemic”** Jul 20, 2016 – Emory Health Sciences. <http://esciencecommons.blogspot.com/2016/07/chasing-fire-fever-and-human-mobility.html>  
**“Zika virus not causing outbreaks in continental U.S.”** USA Today. Jan28, 2016. <http://www.usatoday.com/story/news/2016/01/28/who-warns-zika-spread/79451430/>  
**“Why Zika may not be a big deal in America”**. Atlanta Journal Constitution. Feb1, 2016. <http://www.ajc.com/news/travel/why-zika-may-not-be-big-deal-america/nqGnm/>
- 2015 **“Pioneering the Science of Disease Forecasting”**. Emory University, Office of the Provost newsletter. <http://provost.emory.edu/news-events/news/2015/october/disease.html>  
**“Courageous Inquiry 3.0: New Facts of Life”**. Emory University, Office of the Provost. <http://provost.emory.edu/strategies/stories/2015/spring/life-sciences.html>

- 2014 **“Chikungunya Virus spreads in Americas, enters U.S. via travelers”**. Emory eScienceCommons:  
[http://news.emory.edu/stories/2014/06/esc\\_mosquito\\_virus/campus.html](http://news.emory.edu/stories/2014/06/esc_mosquito_virus/campus.html)  
**“Sewer upgrade flushes West Nile virus vector from Atlanta stream”**. Emory eScienceCommons: <http://esciencecommons.blogspot.com/2014/05/sewer-upgrade-flushes-west-nile-vector.html?spref=tw>  
**“Dengue study to focus on asymptomatic carriers”**. Emory sScienceCommons:  
<http://esciencecommons.blogspot.com/2014/04/dengue-study-to-focus-on-asymptomatic.html>
- 2013 **“Human mobility data may help curb urban epidemics”** Emory escienceCommons.  
<http://esciencecommons.blogspot.com/2013/04/human-mobility-data-may-help-curb-urban.html>  
**“How the Dengue Virus Makes a Home in the City”**. Emory Report:[http://news.emory.edu/stories/2013/01/esc\\_dengue\\_fever\\_makes\\_home\\_in\\_city/campus.html](http://news.emory.edu/stories/2013/01/esc_dengue_fever_makes_home_in_city/campus.html)
- 2012 **“Mosquitoes Return in Force”** Atlanta Journal Constitution, 04/24/2012.  
<http://www.ajc.com/lifestyle/mosquitoes-return-in-force-1425432.html>
- 2011 **“Insect Catcher Lightens the Load for Researchers Battling Mosquito-Borne Illnesses”** in *The Better World Project*.  
[http://www.betterworldproject.org/documents/AUTM11BWR\\_FNL.pdf](http://www.betterworldproject.org/documents/AUTM11BWR_FNL.pdf)
- 2010 Kitron U. and **Vazquez-Prokopec G.M.** 2010, GIS, Remote Sensing and Spatial Analysis for Vector-borne Diseases, in Edman, J. (ed.), Vector-Borne Diseases. The Biomedical & Life Sciences Collection, Henry Stewart Talks Ltd, London (<http://hstalks.com/?t=BL1182707-Kitron> ).  
**“Mosquito Monitoring Saves Lives and Money.”** Emory Report, November 02, 2010.  
[http://www.emory.edu/EMORY\\_REPORT/stories/2010/10/25/research\\_mosquitoes.html](http://www.emory.edu/EMORY_REPORT/stories/2010/10/25/research_mosquitoes.html)  
**“Sewage raises mosquito risk.”** Emory eScienceCommons.  
<http://esciencecommons.blogspot.com/2010/06/sewage-raises-west-nile-virus-risk.html>  
**“Mosquito hunter. Program: Inside Africa, CNN.”** On air worldwide, Feb 09.  
<http://edition.cnn.com/video/#/video/international/2010/02/09/inside.africa.mosquito.hunt.bk.b.cnn>  
**“Mosquito surveillance on the cheap.”** Futurity.org. <http://www.futurity.org/health-medicine/mosquito-surveillance-on-the-cheap/>  
**“Do-it-yourself mosquito vacuum.”** Discovery News. Online, Jan 07.  
<http://news.discovery.com/animals/do-it-yourself-mosquito-vacuum.html>
- 2009 **“Mosquito vacuum helps monitor diseases.”** Emory University eScienceCommons.  
<http://www.youtube.com/watch?v=lshurCNmS-Q>

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## Scientific Societies

American Association for the Advancement of Sciences • American Society of Tropical Medicine and Hygiene • Georgia Mosquito Control Association • Entomological Society of America