

Curriculum Vitae
AMY YOMIKO VITTOR

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Education

09/2002 – 06/2007 MD Stanford University School of Medicine
09/1999 – 05/2003 PhD Johns Hopkins University School of Public Health
09/1997 – 06/1999 MHS Johns Hopkins University School of Public Health
(International Health, Disease Control and Prevention)
08/1993 – 05/1997 BA UC Berkeley (dual major: Biology, Anthropology)

Postgraduate Training and Fellowship Appointments

8/2013 – Present Assistant Professor of Medicine, Division of Infectious Disease &
Global Medicine and Emerging Pathogens Institute, University of
Florida, Gainesville, FL
4/2012 – Present Consultant, Institute for Social and Environmental Transition,
Boulder, CO
3/2012 – Present Associate, Johns Hopkins Bloomberg School of Public Health,
Baltimore
06/2012 – 08/2013 Post-doctoral fellow, Department of Pathology, University of Texas,
Medical Branch, Galveston
07/2009 – 07/2013 Fellow, Infectious Diseases, Univ. of Pennsylvania, Philadelphia
06/2008 – 06/2009 Resident in Medicine, Univ. of Pennsylvania, Philadelphia
(physician-scientist track)
06/2007 – 06/2008 Intern in Medicine, Univ. of Pennsylvania, Philadelphia

Licensure

2013 Florida unrestricted medical license
2013 Infectious Disease Board Certification, Exp. Date: 11/2023
2011 Internal Medicine Board Certification, Exp. Date: 08/2021
2011 Basic Life Support, Exp. Date: 06/2013

Research Experience

08/2013 – present Assistant Professor of Medicine
Division of Infectious Disease and Global Medicine
University of Florida
Human immunological and genetic susceptibility to alphaviruses;

field experimental methods for determining enzootic hosts;
epidemiology of eastern equine encephalitis and Venezuelan equine
encephalitis in Panama.

- 04/2012 – present Consultant
Asian Cities Climate Change Resilience Network,
Institute for Social and Environmental Transition, Vietnam
Project: “Strengthening the Resilience of Can Tho City through
Participatory Research and Intervention on Dengue Fever in the
context of Climate Change”.
- 06/2012 – 08/2013 Post-doctoral fellow
University of Texas, Medical Branch, Galveston
Supervisor: Dr. Scott Weaver
Epidemiology of eastern equine encephalitis in Darien, Panama,
including the search for likely animal hosts and factors associated
with emergence.
- 07/2010 – 06/2012 Research Fellow
University of Pennsylvania/Centers for Disease Control and
Prevention – Kenya/Fogarty International Clinical Research Fellow
Supervisors: Drs. Neal Nathanson, Robert Breiman (CDC-Kenya)
Development of mosquito dengue assay based on loop mediated
isothermal amplification; dengue serosurvey in Kenya.
- 07/2009 – 06/2010 Consultant
Johns Hopkins University School of Public Health, Ethiopia
Coordination of pediatric tuberculosis study evaluating novel
diagnostic methods, including Microscopically Observed Drug
Susceptibility (MODS) testing, loop mediated isothermal
amplification (LAMP), and stool PCR. NIH funded study; Principal
Investigator: Dr. Robert Gilman.
- 12/2005 - 04/2006 Research Assistant
Earth Institute/UN Millennium Villages Project, New York
Supervisors: Drs. Jeffrey Sachs and Sonia Sachs
Aiding in the training of data collectors, administration of baseline
health surveys, and distribution of insecticide treated bed nets in
Koraro, Ethiopia.
Compilation of database of malaria indicators for countries where
Millennium Villages were being planned.
- 11/1999 - 06/2000 Research Associate
Johns Hopkins University School of Public Health, Peru
Supervisor: Dr. Robert Gilman
Entomological research establishing baseline malaria vector ecology
prior to the institution of insecticide treated bednets. Additional
component examining selected villagers' activities and locations of

exposure to malaria vectors.

- 07/1998 - 05/2003 Doctoral student
Johns Hopkins University School of Public Health, Peru
Advisors: Drs. Jonathan Patz, Robert Gilman, James Tielsch
PhD research consisting of grant writing, designing and executing study examining the impact of deforestation on malaria vector abundance and human malaria prevalence in the Peruvian Amazon. I spent three years in the field, leading river expeditions, setting up entomology and malaria laboratories, and managing a team of thirty laboratory and field workers. Epidemiological and statistical tools were used extensively throughout the study.
- 08/1996 - 05/1997 Research Assistant
Plant Gene Expression Center at UC Berkeley, California
Supervisor: Dr. Barbara Baker
Variety of laboratory and greenhouse tasks including molecular work with Arabidopsis and the N-gene conferring resistance to the tobacco mosaic virus.
- 06/1995 - 08/1995 Research Assistant
University of California at San Francisco, California
Supervisor: Dr. Judy Sakanari
Attempts to isolate the cysteine protease gene of Leishmania as part of rational drug design study, using RT-PCR techniques.

Teaching Experience

- 08/2013 – present Attending physician, supervising and teaching fellows, residents and medical students in infectious disease
- 08/2013 – present Lecturer, Mosquito-borne Infections
University of Florida
Course title: “Noontime conference for Internal Medicine Residents”
- 08/2012 – 8/2014 Lecturer, Emerging Infectious Diseases
University of Pennsylvania Global Health residency track
Course title: “Global Health Seminar”
- 12/2010; 12/2011 Lecturer, Infectious Disease Epidemiology lecture & small group sessions
University of Pennsylvania School of Medicine, Philadelphia
Course title: “Integrative Systems and Disease: Infectious Diseases” for second year medical students
- 07/2010 – 06/2011 Lecturer, Overview of Tuberculosis
University of Pennsylvania School of Medicine, Philadelphia

- Course title: "Infectious Diseases Rotation" for third and fourth year medical students
- 07/2009 – 11/2009 Preceptor
University of Pennsylvania School of Medicine, Philadelphia
Course title: "Technology and Practice of Medicine"
- 07/2009 – 11/2009 Teaching assistant
University of Pennsylvania School of Medicine, Philadelphia
Course title: "Simulated Procedures/Reducing Risk in Low Resource Settings"
- 09/ 2006 - 12/2006 Teaching assistant
Stanford University School of Medicine, California
Course title: "Practice of Medicine" for first year medical students
- 07/ 2003 - 08/2003 Science teacher
Cosmos Education, South Africa
Basic HIV virology and epidemiology in secondary schools in South Africa, Swaziland, Botswana, and Zambia.

Awards and Grants

- 2016 Heterologous immunity and host susceptibility to emerging alphaviral infections
NIH 1K08AI116980-01A1
Role: PI
- 2015 NIH Loan Repayment Program, Clinical Research
- 2014 University of Florida Seed Fund
Hydroelectric dams and health effects
Principal Investigator: Denis Valle
Role: Co-investigator
- 2013 University of Florida Gatorade start-up funds
University of Florida, Dept. of Medicine
Role: PI
- 2012 University of Texas, Medical Branch, Global Health T32
Eastern equine encephalitis epidemiology in Darien, Panama
Principal Investigator: A. Clinton White
Research Supervisor: Scott Weaver, PhD
University of Texas, Galveston TX
5T32 AI007536-15
Role: Research fellow
- 2011 NIH Loan Repayment Program, Pediatric Research

- 2011 NIH Fogarty International Clinical Fellow
 Flaviviral sero-epidemiology in Kenya
 Principal Investigator: Sten Vermund
 NIH Fogarty International Clinical Research Scholars & Fellows Program
 5R24 TW007988-03
 Role: PI
- 2010 Johns Hopkins University, Baltimore, T32
 Novel techniques for the detection of pediatric TB in Ethiopia
 Principal Investigators: Robert H. Gilman
 5R01 HD0 59005-03
 NIH/NICHD
 Role: Research fellow
- 2006 Alan and Ruth Borenstein Medical Scholarship
- 2003 MacKenzie Foundation Medical Scholarship
- 2000 New York Community Trust (P.I. J.Patz)
 Impact of Deforestation on Malaria
 Principal Investigator: Jonathan Patz
 New York Community Trust Fund
 Role: PhD student
- 1995 HHMI Undergraduate Research Scholar Award

Membership in Professional and Scientific Societies

American Society of Tropical Medicine and Hygiene
 American Medical Association
 American College of Physicians
 Infectious Disease Society of America/HIVMA

Presentations at International Conferences

- Nov, 2016 Deforestation and Human Disease
 Presented by Dr. Nathan Burkett-Cadena in my stead at the
 25th International Congress of Entomology, Orlando, FL
- Nov, 2014 South American Eastern Equine Encephalitis: Possible
 enzootic hosts, human epidemiology and associations with
 land use
 Presented at the 63rd annual meeting of the American Society
 of Tropical Medicine and Hygiene, New Orleans, LO

- Dec, 2005 Deforestation and Malaria in the Peruvian Amazon. Presented at the 54th annual meeting of the American Society of Tropical Medicine and Hygiene, Washington, DC
- Jun, 2002 Deforestation and Malaria in the Peruvian Amazon. Presented at “Healthy Ecosystems, Healthy People” organized by the International Society for Ecosystems Health, Washington DC
- Aug, 2000 Association between Deforestation and the Human Biting Rate of *Anopheles darlingi* in the Peruvian Amazon. Presented at the 21st International Congress of Entomology, Iguacu falls, Brazil, 2000

Lectures by Invitation

- June, 2017 Zika virus: where are we? American Academy of Family Physicians 2017 Update, Reston, Virginia
- May, 2016 Epidemiology of Emerging arboviral Diseases. Newborn Day Conference, Charleston, West Virginia
- August, 2015 Land Use and Mosquito-borne Diseases: Habitat preferences and shifting patterns of disease. Florida Medical Entomology Laboratory, Florida
- June, 2015 A Rare yet Emerging Cause of Severe Myocarditis and Cardiomyopathy. University of Florida Medicine Grand Rounds, Florida
- June, 2013 Epidemiologia del Encefalitis Equina del Este en Darien, Panama. Instituto Conmemorativo Gorgas de Estudios en Salud, Panama
- October, 2012 Ecological Concepts for the Study of Emerging Infectious Disease. Instituto Conmemorativo Gorgas de Estudios en Salud, Panama
- May, 2001 El Impacto de Deforestación en la Malaria. Universidad Nacional de la Amazonia Peruana, Iquitos, Peru
- Feb, 2000 Deforestation of the Peruvian Amazon and the Risk of Malaria. American Museum of Natural History, New York

Publications

Burkett Cadena N, **Vittor AY**. Deforestation and vector-borne disease: forest conversion favors important mosquito vectors of human pathogens. *Basic and Applied Ecology* 2017 (in review)

Tucker Lima JM, **Vittor A**, Rifai S, Valle D. Does deforestation promote or inhibit malaria transmission in the Amazon? A systematic literature review and critical appraisal of the effect of deforestation on malaria. *Phil Trans Royal Soc B* 2016 (in press)

Vittor AY. Venezuelan equine encephalitis virus infection. In *BMJ Best Practice*.
<http://bestpractice.bmj.com>

Vittor AY. Eastern equine encephalitis virus infection. In *BMJ Best Practice*.
<http://bestpractice.bmj.com>

Toai NP, Chinh DV, **Vittor AY**, Huy NN. Associations between dengue hospitalizations and climate in Can Tho, Vietnam, 2001 – 2011. *Environment Asia* 2016 9(2): 55-63

Vittor AY. Zika. *Decision Support in Medicine* (www.decisionsupportinmedicine.com), online resource. 2016

Vittor AY, Armien B, Gonzalez P, Carrera JP, Dominguez C, Valderrama A, Glass GE, Beltran D, Cisneros J, Wang E, Castillo A, Moreno B, Weaver SC. Epidemiology of emergent eastern equine encephalitis in a region with endemic Venezuelan equine encephalitis: initial host studies and human cross-sectional study in Darien, Panama. *PLoS Negl Trop Dis*. 2016 10(4):e0004554

Omballa VO, Musyoka RN, **Vittor AY**, et al. Serological evidence of the geographic distribution of bacterial zoonotic agents in Kenya, 2007. *Am J Trop Med Hyg* 2016 94(1): 43-51

Ochieng C, Ahenda P, **Vittor AY**, Nyoka R, Gikunju S, Wachira C, Waiboci L, Umuro M, Kim AY, Nderitu L, Juma B, Montgomery JM, Breiman RF, Fields B. Seroprevalence of dengue, Rift Valley fever and chikungunya virus infections in Kenya, 2007. *PLoS ONE* DOI: 10.1371/journal.pone.0132645

Vittor AY, Garland JM, Gilman RH. Molecular diagnosis of TB in the HIV positive population. *Annals of Global Health* 2014 80(6):476-485

Hahn MB, Olson SH, **Vittor AY**, Barcellos C, Patz JA, Pan W. Conservation and malaria in the Brazilian Amazon. *Am J Trop Med Hyg*. 2014 90(4):591-4

Vittor AY, Cherabuddi K. Chikungunya. Decision Support in Medicine (www.decisionsupportinmedicine.com), online resource. 2014

Carrera JP, Forrester N, Wang E, **Vittor AY**, Haddow A, Lopes-Verges S, Abadia I, Castano E, Sosa N, Baez C, Estripeaut D, Diaz Y, Beltran D, Cisneros J, Cedeno HG, Travassos da Rosa AP, Hernandez H, Martinez-Torres AO, Tesh RB, Weaver SC. Eastern Equine Encephalitis: first documented outbreak from Latin-America. N Engl J Med. 2013 369(8):732-44

Vittor AY, Arauz AB. Dengue. Decision Support in Medicine (www.decisionsupportinmedicine.com), online resource. 2013

Vittor AY, Garland JM, Schlossberg D. Improving the diagnosis of tuberculosis: From QuantiFERON to new techniques to diagnose tuberculosis infections. Curr HIV/AIDS Rep. 2011 Sep;8(3):153-63

Vittor AY, Pan W, Gilman RH et al. Linking Deforestation to Malaria in the Amazon: Characterization of the Breeding Habitat of the Principal Malaria Vector, *Anopheles darlingi*. Am J Trop Med Hyg. 2009 Jul;81(1):5-12

Vittor AY, Gilman RH, Tielsch J, Glass G, Shields T, Lozano WS, Pinedo-Cancino V, Patz JA. The effect of deforestation on the human-biting rate of *Anopheles darlingi*, the primary vector of falciparum malaria in the Peruvian Amazon. Am J Trop Med Hyg. 2006 Jan;74(1):3-11.

Pinedo-Cancino V, Sheen P, Tarazona-Santos E, Jeri-Apaza C, Oswald W, **Vittor A**, Patz J, Gilman R. Limited diversity of *Anopheles darlingi* in the Peruvian Amazon region of Iquitos. Am J Trop Med Hyg. 2006 75(2): 238-245

Patz JA, Graczyk TK, Geller N, **Vittor AY**. Effects of environmental change on emerging parasitic diseases. Int J Parasitol. 2000 Nov;30(12-13):1395-405

Foreign Language Skills

Spanish, Japanese, Dutch. Limited fluency in French. Learning Swahili, Amharic.