

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  
 25<sup>th</sup> 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 63<sup>rd</sup> 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](http://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](http://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](http://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.