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EDUCATION

- 2003–10 PhD, Princeton University, Woodrow Wilson School of Public and International Affairs
- 2000–02 Master of Public Administration in International Development, Harvard University, John F. Kennedy School of Government
- 1999 Pacific Asian Management Institute Certificate, University of Hawaii, Shidler College of Business
- 1992–97 Bachelor of Business Administration in International Business, University of Georgia

EMPLOYMENT

Academic employment

- 2012–14 Postdoctoral Research Fellow, Columbia University, Center for Research on Environmental Decisions, International Research Institute for Climate and Society
- 2010–12 Earth Institute Postdoctoral Research Fellow, Columbia University, Earth Institute

Fellowships and affiliations

- 2008–09 Princeton Institute for International and Regional Studies - Dissertation Writing Grant
- 2003–08 Princeton University Fellowship
- 2004 Princeton Institute for International and Regional Studies – language study

Policy & advisory roles

- 2009–13 Advisor: Liberia National Malaria Control Program, Monrovia, Liberia
- 2004 Consultant: Dar es Salaam Integrated Malaria Control Program, Dar es Salaam, Tanzania
- 2002 Participant and Trainer: World Health Organization International Course on Malaria and Planning its Control, Addis Ababa, Ethiopia
- 2002 Consultant: Equatorial Guinea Malaria Survey Team, Bioko Island, Equatorial Guinea

PUBLICATIONS

Published and forthcoming papers

- Willis, Derek. 2013. “The communication of cost-effectiveness studies of anti-malaria interventions to policy makers,” *European Journal of Risk Regulation*.
- Willis, Derek. 2010. “A systems thinking framework for assessing and addressing malaria locally: an alternative to the globalization of anti-malaria policies,” Dissertation.

Policy papers and reports

- 2014. Forthcoming. “Stakeholder Engagement Framework for NASA/SERVIR,” with P. Ceccato, D. Osgood, M. Thomson, prepared for NASA/SERVIR.
- 2013. “Use of Climate Information in Malaria Stratification, Early Warning Systems and Impact Assessment for Malaria Interventions,” with A. Kijazi, A. Kanemba, M. Mutoni, H. Msemo, W. Timiza, P. Ceccato, B. Platzer, T. Dinku, M. Thomson, prepared for the Tanzania Meteorological Agency.
- 2012. “Development of Climate Analysis Section for the President’s Malaria Initiative Impact Evaluation: Reports for Ethiopia and Tanzania,” with M. Thomson, F. Zdravec, B. Lyon, G. Mantilla, P. Ceccato, T. Dinku, prepared for the President’s Malaria Initiative - USAID.
- 2012. “Assessment of Research Needs for Public Health Adaptation to Social, Environmental and Climate Change Impacts on Vector-Borne Diseases in Africa,” with M. Thomson, G. Mantilla, B. Platzer, A. Willingham, J. Somerfeld, Y. Toure, prepared for the World Health Organization.
- 2002. “Industrial Anti-Malaria Policies,” with A. Spielman, S. Weerasuriya, P. Malaney, A. Kiszewski, R. Pollack and A. Teklehaimanot, commissioned by the Global Health Initiative of the World Economic Forum.
https://members.weforum.org/pdf/Initiatives/Harvard_malaria.pdf
- 2002. “Establishment of the Commission on Macroeconomics and Health,” prepared for Harvard Health Policy Review.
<http://www.hcs.harvard.edu/~epihc/currentissue/spring2002/willis.php>

Works in progress

- Willis, D., B. Singer, J. Hammer. “A systems thinking framework for assessing and addressing malaria locally – Evolutionary Learning through the Integrated Networking of Knowledge.”
- Willis, D., B. Singer, J. Hammer. “A methodological framework for retrospectively evaluating the impact of suppressing malaria through anti-malaria programs on economic growth and development.”
- Willis, D., B. Singer, J. Hammer. “An analysis of two alternative methodologies for evaluating anti-malaria programs: cost-effectiveness analysis versus malaria systems assessments.”

- Willis, D., T. Miron-Shatz, G. Treuer. “Framing risky policy decisions for international infectious disease experts.”

RESEARCH GRANTS

- 2013–14 Columbia University – Earth Institute, “A tool for policy makers for visualizing the spatial and temporal uncertainty of malaria epidemic forecasts,” (\$28,000)
- 2011–13 Columbia University – Earth Institute, “A web-based decision support system for malaria policy makers,” (\$23,550)

TEACHING

- 2014 *Albert Einstein College of Medicine of Yeshiva University*, Global Health Education for the Primary Care and Social Internal Medicine Residency program, invited to teach class on epidemiology and economics of malaria policy making
- 2013 *University of Miami*, Miller School of Medicine, invited by Prof. Julie Kornfeld to teach MPH class on social entrepreneurship and public health
- 2012 *Albert Einstein College of Medicine of Yeshiva University*, Global Health Education for the Primary Care and Social Internal Medicine Residency program, invited to teach class on epidemiology and economics of malaria policy making
- 2011 *Columbia University*, School for International and Public Affairs, invited by Prof. Ben Orlove to teach class on adaptation to climate change – focus on adaptive capacity and resilience
- 2011 *Albert Einstein College of Medicine of Yeshiva University*, Global Health Education for the Primary Care and Social Internal Medicine Residency program, invited to teach class on epidemiology and economics of malaria policy making
- 2009 *Princeton University*, Social Entrepreneurship, Lecturer for semester-long course on using principles of social entrepreneurship to address international development challenges
- 2006 *Harvard University*, Harvard School of Public Health, invited by Prof. Andrew Spielman to teach a class on the economics of malaria policy making
- 2006 *Princeton University*, Human Genetics, Reproduction and Public Policy, Teaching assistant for a semester-long course that explored public perceptions and misperceptions of biotechnology (e.g. embryonic stem cells, cloning, genetic selection, egg or womb vending) through use of science fiction, movies and popular music.
- 2005 *Harvard University*, Harvard School of Public Health, invited by Prof. Andrew Spielman to teach a class on the economics of malaria policy making
- 2004 *Harvard University*, Harvard School of Public Health, invited by Prof. Andrew

Spielman to teach a class on the economics of malaria policy making

SELECTED PRESENTATIONS

Invited seminars

- 2013 *University of Miami*, Abess Center for Ecosystem Science and Policy, “The role of choice architecture in public policy”, Research Seminar
- 2013 *Columbia University*, Center for Research on Environmental Decisions, “The role of choice architecture in public policy”, Research Seminar
- 2013 *University of Miami*, Miller School of Medicine, “Careers in Global Health”, Career Seminar
- 2013 *Columbia University*, International Research Institute for Climate and Society, “Development of a Stakeholder Engagement Framework for NASA’s SERVIR Program”, Research Seminar
- 2012 *Columbia University*, Center for Research on Environmental Decisions, 2012 Annual Meeting, “Prospect Theory and Infectious Disease Experts”, Research Seminar
- 2009 *National Institutes of Health – Fogarty International Center*, “A Framework for Assessing and Addressing the Focal Nature of Malaria Transmission”, Research Seminar
- 2006 *Harvard University*, Center for International Development, “The Economics of Malaria”, Research Seminar
- 2006 *Harvard University*, Harvard School of Public Health – Andrew Spielman’s lab, “Estimating Malaria Incidence Rates from Longitudinal Data”, Research Seminar

Conference presentations

- 2012 Behavioral Decision Research in Management Conference, “The impact of framing Effects on the decisions of infectious disease experts” (poster), Boulder, Colorado
- 2012 ICARUS III, Annual Conference, “The role of metrics in limiting or supporting the identification of appropriate adaptation policies to suppress malaria Transmission”, New York, New York
- 2012 10th Annual Climate Prediction Applications Science Workshop, “A framework for using climate information to prevent malaria epidemics in the Horn of Africa”, Miami, Florida
- 2012 Adaptation to Social, Environmental and Climate Change Impacts on Vector-Borne Diseases in Africa, “Gaps and opportunities in integrating social science research into climate change adaptation for vector-borne diseases”, Addis Ababa, Ethiopia.

- 2009 American Society of Tropical Medicine and Hygiene, Annual Meeting, “Identifying the optimal anti-malaria program for a community: the need to focus on social welfare as the target outcome”, Washington, D.C.
- 2006 5th East-West Center International Graduate Student Conference, “A new framework for suppressing malaria transmission in Asia”, Honolulu, Hawaii.
- 2005 American Society of Tropical Medicine and Hygiene, Annual Meeting, “Identifying the causal channels of the malaria gap: Population mobility and its impact on GDP in the former Federated Malay States”, Washington, D.C.

OTHER RESEARCH POSITIONS

- 2002. Research Assistant, set-up and monitored light traps for *Culiseta melanura* in swamps surrounding Boston for an Eastern Equine Encephalitis research project, Supervisor - Prof. Andrew Spielman – Harvard School of Public Health
- 2002. Research Assistant, researched the daily survival and proportion of blood meals taken from human hosts on malaria vectors in order to develop stability of malaria transmission index, Supervisor - Prof. Andrew Spielman – Harvard School of Public Health
- 2001. Independent Research Project, worked with Dar es Salaam Chief Medical Officer of Health to develop a plan for a new integrated anti-malaria program with a focus on environmental management, Supervisor – Prof. Wen Kilama – University of Dar es Salaam