

## Curriculum Vitae

**Joseph Keating, Ph.D.**

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### Education

**Postdoctoral:** Department of Epidemiology and Public Health, Miller School of Medicine, University of Miami, Miami, Florida. 2003-2005. Focus: Malaria epidemiology.

**Ph.D.:** Department of International Health and Development, Tulane University, School of Public Health and Tropical Medicine, New Orleans, Louisiana. 2003. Focus: Vector-borne disease ecology.

**M.A.:** Center for International Affairs, Ohio University, Athens, Ohio. 1999. Focus: International development studies (Health & Geography)

**B.S.:** Department of Biology, Marian College, Indianapolis, Indiana. 1993. Focus: Biology

### Relevant Professional Experience

01/01/2015 – present

**Associate Dean of Undergraduate Education:** BSPH program, School of Public Health and Tropical Medicine, Tulane University.

07/01/2015 - present

**Professor:** Department of Tropical Medicine, Center for Applied Malaria Research and Evaluation, Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA. Tenured position: responsible for advising, developing independent research, and teaching graduates and undergraduates in tropical disease, malaria and evaluation design.

07/2011 – 07/2015

**Associate Professor:** Department of Global Health Systems and Development, Center for Applied Malaria Research and Evaluation, Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA. Tenured position: responsible for advising, developing independent research, and teaching graduates and undergraduates in tropical disease, malaria and evaluation design.

04/2007 – 06/2011

**Assistant Professor:** Department of International Health and Development, Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA. Tenure track position: responsible for advising, developing extramural independent research, and teaching graduates and undergraduates in international public health.

07/2005 – 03/2007

**Research Assistant Professor:** Department of International Health and Development, Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA. Non-tenure track position: responsible for advising, developing extramural independent research and teaching at the graduate level.

10/2003 – 06/2005

**Postdoctoral fellow:** Department of Epidemiology and Public Health, University of Miami, Miller School of Medicine, Miami, Florida. Responsible for conducting larval ecology studies in Kenya, writing grants, and publishing in academic journals.

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07/2001-06/2003

**Research Assistant:** Department of Tropical Medicine, Tulane University SPHTM, NIH African Malaria Vectors Study, Coast Province, Kenya.

01/2001 – 06/2001

**Visiting Scientist:** International Centre of Insect Physiology & Ecology (ICIPE), Nairobi, Kenya. Responsible for creating maps of Kisumu and Malindi and collecting mosquito larval and human-ecological data.

01/2000 – 06/2000.

**Visiting Assistant Professor:** Department of Geography and Planning, Eastern Kentucky University, Richmond, Kentucky: responsible for advising and teaching undergraduates in geography.

06/1995 – 09/1997

**Peace Corps Volunteer:** U.S. Peace Corps, Agroforestry; The Gambia, West Africa., Sandu Darsilameh, Upper River Division.

### Honors and Awards

- Delta Omega Honorary Society in Public Health (2006)
- Recipient of the Tulane University SPHTM Undergraduate Outstanding Teaching Award (2010)
- Tulane University Favorite Faculty Luncheon (2011)
- Recipient of the Tulane University SPHTM Undergraduate Outstanding Teaching Award (2011)
- Recipient of the Tulane University SPHTM Graduate Teaching Scholar Award (2011)
- Recipient of the Tulane University SPHTM Undergraduate Outstanding Teaching Award (2014)

### Professional Memberships and Offices

1. Member at the Center for Applied Malaria Research and Evaluation (since 2013)
2. Fellow at the Tulane University Center for Evidence-Based Global Health (since 2009)
3. Member at the Tulane University Center for Infectious Disease (since 2008)
4. Member of American Society and Tropical Medicine and Hygiene (since 2001)
5. Member of American Public Health Association (since 2004)
6. Newcomb Fellow, Newcomb College Institute, Tulane University (2008-2010)
7. Delta Omega Society, Eta Chapter, Secretary (2007)
8. Delta Omega Society, Eta Chapter, Vice President (2008)
9. Delta Omega Society, Eta Chapter, President (2009)
10. Member, Global Public Health Research Group, Miami FL (since 2004)
11. Secretary of the general faculty, Tulane University SPHTM (2009)
12. Vice-Chair of the general faculty, Tulane University SPHTM (2010)
13. Chair of the general faculty, Tulane University SPHTM (2010)

### Editorial Boards

1. Academic Editor, Plos One Journal

### National / International Committees

1. Invited Guest Member of the Roll Back Malaria Monitoring and Evaluation Reference Group (MERG) (2006)
2. Member of the President's Malaria Initiative (USAID), Behavior Change Communication (BCC) working group (2012-2014) – Chaired by Johns Hopkins University and the CDC.

## Consultancies

1. **World Health Organization** – Protocol and survey instrument development for rapid assessment of HRP2 gene deletions in health facilities. 2017
2. **ICF Macro LLC** – Meta-analysis and description of barriers to access and treatment for cough, fever, and diarrhea episodes among children under the age of 5 years old across 15 WHO sub-regions: June 2014 - September 2014.
3. **CAMRIS International LLC** – monitoring and evaluation technical writing: October 2013-March 2014
4. **University of Jazan, Saudi Arabia** – impact evaluation and study design; review of grant proposals as part of the MPH program: October 2011 – October 2012.
5. **John Snow Inc** – impact evaluation and study design development for the Global Alliance Vaccine Initiative 5 year evaluation: November 2011 – May 2012.
6. **Greenstar Social Marketing** – a subsidiary of PSI, 07/2010 – 07/2011: Developed manuscripts for peer review publication on Maternal and Child Health and Advertising Impact Studies in Pakistan.
7. **Malaria Control and Evaluation Partnership in Africa (MACEPA)** - a PATH project, 1-12/2009: Developed the Tanzania National Malaria Control Monitoring and Evaluation Plan 2010-2015, which focuses on reducing transmission and sustained control.
8. **Malaria Control and Evaluation Partnership in Africa (MACEPA)** - a PATH project, 2/2009 – 01/2010: Developed and taught Monitoring and Evaluation course at the University of Zambia.
9. **Project Management Unit, National Malaria Control Program, Ministry of Health, Eritrea**, 05 – 12/2009: Developed study design, survey instruments, and sub-agreements for the implementation of an Indoor Residual Spraying (IRS) campaign impact evaluation.
10. **Project Management Unit, National Malaria Control Program, Ministry of Health, Eritrea**, 12/2009 – 06/2010. Data analysis and write-up IRS impact evaluation, Gash Barka.
11. **Greenstar Social Marketing** – a subsidiary of PSI, 07-10/2009: Advised on the development of protocol, survey instruments and analysis methods for an Advertising Impact Study in Pakistan.
12. **World Bank, Eritrea**, 02/2008: Advised on malaria M & E and design of impact evaluation studies during Cross-Country Workshop: Malaria and HIV/AIDS Impact Evaluation, Asmara, Eritrea.
13. **World Bank, Eritrea**, 05/2008: End-term review of the World Bank HAMSET II project and impact evaluation, focus on malaria.
14. **World Bank, Eritrea**, 11/2007: Mid-term review of the World Bank HAMSET II project and impact evaluation, focus on malaria.
15. **Global Fund to Fight AIDS TB and Malaria**, Geneva, Switzerland, 05-06/2006: Developed a strategic document for the 5 year impact evaluation plan for GFATM activities.
16. **Department of Epidemiology and Public Health**, University of Miami School of Medicine, Miami, FL, 2003 – 8/2003: Hired to investigate the relationship between remote sensing data and field-based socioeconomic and entomological data in Kisumu and Malindi Kenya.
17. **Tulane University**, MEASURE Evaluation Phase I, 2003-2005: Assisted with the Reproductive and family planning baseline survey in Nigeria, data analysis, and presentation of geographic methods during results dissemination workshop, Abuja, Nigeria.

## Teaching

*TRMD 6200 Impact Evaluation in Global Health (3 credits)*: This course provides an introduction to impact evaluation in the international setting, with a focus on national and sub-national impact evaluation study designs used for tropical diseases. **Graduate level**: Since 2006

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*GHSD 6280 Program Evaluation in Global Health (2 credits)*: This course provides an introduction to program evaluation in the international setting, with a focus on national and sub-national impact evaluation. **Graduate level**: Fall 2011-2014

*GHSD 7420/TRMD 7420 Population Based Malaria Prevention and Control (3 credits)*: This course introduces population-based malaria research, prevention strategies, control tools, and strategies for elimination. **Graduate level**: Since 2011

*SPHU 3120 Issues and strategies in public health (3 credits)*: This course was developed in 2008 as part of the undergraduate BSPH program. This course presents information on the biology, epidemiology, geography, social, and policy dimensions of disease, with an emphasis on malaria, hemorrhagic fevers, diabetes, schistosomiasis, and diarrheal diseases. **Undergraduate level**: Since 2008

*SPHU 2810 Pandemics and Public Health (3-credits)*: This new course focused on the terminology and definitions used during pandemics, emergency response, communication, social and ethical issues, international case studies, and the development of a pandemic preparedness plan. **Undergraduate level**: 2022

*INHL 624 Monitoring and Evaluation in International Health (2 credits)*: This revised course 1) provided an introduction to program monitoring and evaluation, 2) provides basic professional skills for developing M & E plans, and 3) provides a foundation for more specialized classes offered in the area of M & E - Tulane University, **Graduate level**: Spring 2006, Fall 2006, Fall 2007, Fall 2008, Fall 2009, and Fall 2010.

*INHL 705 International Health and Development Doctoral Seminar (1 credit)*: This new course was developed in 2008 by Dr. Murphy and me, and is currently co-taught with Dr. Laura Murphy. This course provides doctoral level students with a forum for discussing and presenting on peer-reviewed literature in international health. Special emphasis is placed on student presentation – **Graduate level**: Fall 2008, Spring 2009, and Fall 2009.

*SPHU 3880 Writing Intensive*: Supervise writing intensive for undergraduate students. **Undergraduate level** – Since 2011

*GHSD 799 Independent Study*. Brendan Carter. Advanced Evaluation of Global Health (2 credits). **Graduate level**: Spring 2014

*GHSD 799 Independent Study*. Timothy Finn. Advanced Evaluation of Global Health (2 credits). **Graduate level**: Fall 2012

*GHSD 799 Independent Study*. Kara Karibian. Public Health Program Evaluation (1 credit). **Graduate level**: Spring 2012

*SPHU 4910 Independent Study*. Jilian Daleiden. HIV infection in Haiti and Dominican Republic. **Undergraduate level**: Fall 2012.

*GHSD 799 Independent Study*. Anwar Makeen. Evaluation of Public Health Programs (2 credits). **Graduate level**: Fall 2011

*GHSD 799 Independent Study*. Stephanie Tavitian. Impact Evaluation in International Health (2 credits). **Graduate level**: Fall 2011

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*GHSD 799 Independent Study.* Rieza Soelaeman. Program Evaluation (2 credits). **Graduate level:** Fall 2011

*GHSD 7990 Independent Study.* Carlie Congdon. Monitoring and Evaluation. **Graduate level:** Summer 2011.

*SPHU 4910 Independent Study.* Jessica Katz. Biocomplexity of Infectious Disease. **Undergraduate level.** Fall 2011

*INHL 799 Independent Study.* Aleya Martin. Monitoring and Evaluation. **Graduate level:** Fall 2009.

*INHL 799 Independent Study.* Nacerdine Ouldzeidoune. Mauritania: DHS Data Analysis II. **Graduate level:** Summer 2009.

*INHL 799 Independent Study.* David Larson. Spatial Analyses using GIS. **Graduate level:** Spring 2009.

*INHL 799 Independent Study.* Chris Cotter. Malaria Vector Control. **Graduate level:** Fall 2008.

*INHL 799 Independent Study.* Nacerdine Ouldzeidoune. Mauritania: DHS Data Analysis I. **Graduate level:** Spring 2008.

*INHL 799 Independent Study.* Katie Maloney. Applications in Geographic Information Systems (GIS). **Graduate level:** Fall 2007.

*INHL 799 Independent Study.* Matt Ward. Malaria Survey Methods. **Graduate level:** Fall 2006.

*INHL 799 Independent Study.* Jason Feldman. Monitoring and Evaluation. **Graduate level:** Spring 2006.

*INHL 799 Independent Study.* Jennifer Glick. Monitoring and Evaluation. **Graduate level:** Spring 2006.

*INHL 799 Independent Study.* Daniel Lee. Monitoring and Evaluation. **Graduate level:** Spring 2006.

*SPHU 4990 Honors Thesis:* Supervised honors thesis for Katlyn Swizer, which focused on Dengue fever. **Undergraduate level** – Fall 2013 – Spring 2014.

*SPHU 4990 Honors Thesis:* Supervised honors thesis for Haley Licon, which focused on Chagas disease and molecular markers. **Undergraduate level** – Fall 2013 – Spring 2014.

*SPHU 4990 Honors Thesis:* Supervised honors thesis for Mike Celone, which focused on lymphatic filariasis epidemiology and control in West Africa. **Undergraduate level** – Fall 2012 – Spring 2013.

*SPHU 4990 Honors Thesis:* Supervised honors thesis for Martin Carney, which focused on *Aedes aegypti* resistance mechanisms. **Undergraduate level** – Fall 2012 – Spring 2013

*SPHU 499 Honors Thesis:* Supervised honors thesis for Charles Gaber, which focused on the cost effectiveness of malaria control in Africa. **Undergraduate level:** Fall 2012 – Spring 2013

*SPHU 4990 Honors Thesis:* Second reader for Haley Marchant honors' thesis, which focused on sexual violence on Tulane campus. **Undergraduate level:** Fall 2012 - Spring 2013

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*SPHU 4990 Honors Thesis:* Supervised honors thesis for Bailey Matis, which focused on modeling transmission dynamics of Chagas disease in the Americas. **Undergraduate level** – Fall 2011 – Spring 2012.

*SPHU 4990 Honors Thesis:* Second reader for Christine Chan honors' thesis, which focused on mammography screening and cost effectiveness. **Undergraduate level** – Fall 2011

*SPHU 4990 Honors Thesis:* Supervised honors thesis for Allison Feibus, which focused on the use of betaglucans in public health. **Undergraduate level:** Fall 2010 – Spring 2011.

*SPHU 4990 Honors Thesis:* Supervised an honors thesis for Sally Baker, which focused on malaria and anemia in Sub-Saharan Africa. **Undergraduate level:** Fall 2008 – Spring 2009.

*SPHU 4990 Honors Thesis:* Second Reader on honors thesis for Nicolette Taku. Focus on Knowledge and practices regarding Lassa Fever in the eastern and southern provinces of Sierre Leone. **Undergraduate level:** Fall 2009– Spring 2010.

*GHSD 6280 (Meekers) Program Evaluation in Global Health:* Guest lecture on community randomized control trials. **Graduate level:** Spring 2013

*GHSD 7000 (Mai Do) Data Analysis in Maternal and Child Health:* Guest lecture on indicators used in malaria evaluation. **Graduate level:** Spring 2013, Spring 2014.

*GHSD 7440 (Eisele) Household Sampling Applications in Developing Countries:* Guest lecture on review of biostatistics. **Graduate level:** Spring 2013

*TRMD 7000 Tropical Medicine Seminar:* Guest lecture on Evaluation. Audience was Tropical Medicine and Medical students. **Graduate level:** Fall 2012, Fall 2013, Fall 2014.

*TRMD 7820 Malaria:* Guest lecture on malaria epidemiology and control. Audience was Tropical Medicine and Medical students. **Graduate level:** Since 2012

*INHL 607 Tulane University SPHTM Guest Lecture: Social Impacts of HIV/AIDS.* Lecture focused on monitoring and evaluation of HIV/AIDS programs in Sub-Saharan Africa. **Graduate level:** Spring 2009.

*SOWK 771 Tulane University Department of Social Work Guest Lecture: Contemporary issues in a global context.* Lecture focused on monitoring and evaluation and survey methodology in SSA. **Graduate level:** Spring 2009.

*IDEV 691 Tulane University Payson Center Guest Lecture: Methods of Evaluation.* The lecture focused on real-world applications for monitoring and evaluation of public health programs in Africa. **Graduate level:** Summer 2008

*GEO 301 World Regional Geography (3 credits):* This course explored demographic, economic, health, and environmental processes and geographic patterns in world regions. - Eastern Kentucky University, **Undergraduate level:** Spring 2000.

*GEO 101 Introduction to Geography (3 credits):* This course provided basic concepts and principles about the geography of politics, religion, health, language, landforms, climate, and development. - Eastern Kentucky University, **Undergraduate level:** Spring 2000.

**Publications – Peer-reviewed**

(URL: <https://www.ncbi.nlm.nih.gov/myncbi/joseph.keating.1/bibliography/public/>)

1. **Keating J.** 2001. An investigation into the cyclical incidence of dengue fever. *Journal of Social Science and Medicine* 53(12): 1587-1597
2. Macintyre K, **Keating J**, Sosler S, Kibe L, Mbogo CM, Githeko AK, Beier JC. 2002. Examining the determinants of mosquito avoidance practices in cities in Kenya. *Malaria Journal* 1:14
3. Robert V, Macintyre K, **Keating J**, McWilson W, Trappe JP, Duchemin JB, Beier JC. 2003. Malaria transmission in urban Sub-Saharan Africa. *American Journal of Tropical Medicine & Hygiene* 68(2): 169-176
4. **Keating J**, Macintyre K, Regens JL, Swalm C, Mbogo CM, Githeko A, Ndenga B, Steinberg L, Kibe L, Githure JI, Beier JC. 2003. A geographic sampling strategy for studying relationships between human activity and malaria vectors in urban Africa. *American Journal of Tropical Medicine & Hygiene* 68(3): 357-365
5. Mbogo CM, Mwangangi JM, Nzovu J, Gu W, Yan G, Gunter JT, Swalm C, **Keating J**, Regens JL, Shililu JI, Githure JI, Beier JC, 2003. Spatial and temporal heterogeneity of *Anopheles* mosquitoes and *Plasmodium falciparum* transmission along the Kenyan coast. *American Journal of Tropical Medicine & Hygiene* 68(6): 734-742
6. Eisele TP, **Keating J**, Swalm C, Mbogo CM, Githeko AK, Regens JL, Githure JI, Beier JC. 2003. Linking field-based ecological data with remotely sensed data using a geographic information system in two malaria endemic areas of Kenya. *Malaria Journal* 2(1): 44-54
7. Shililu JI, Mbogo CM, Mutero CM, Gunter JT, Swalm C, Regens JL, **Keating J**, Yan G, Githure JI, Beier JC. 2003. Spatial Distribution of *Anopheles gambiae* and *Anopheles funestus* and Malaria Transmission in Suba District, Western Kenya. *Insect Science and its Application* 23:187-196
8. Jacob BG, Regens JL, Mbogo CM, Githeko AK, **Keating J**, Swalm C, Gunter JT, Githure JI, Beier JC. 2003. Occurrence and distribution of *Anopheles* (Diptera: Culicidae) larval habitats on land cover change sites in urban Kisumu and urban Malindi, Kenya. *Journal of Medical Entomology* 40(6): 777-784
9. **Keating J**, Macintyre K, Mbogo CM, Githure JI, Beier JC. 2004. Characterization of potential larval habitats for *Anopheles* mosquitoes in relation to urban land-use in Malindi, Kenya. *International Journal of Health Geographics* 3: 9
10. Carlson J, **Keating J**, Mbogo CM, Kahindi S, Beier JC. 2004. Ecological limitations on aquatic mosquito predator colonization in the urban environment. *Journal of Vector Ecology* 2: 331-339
11. **Keating J**, Mbogo CM, Mwangangi J, Nzovu JG, Gu W, Regens JL, Yan G, Githure JI, Beier JC. 2005. *Anopheles gambiae* s.l. and *Anopheles funestus* mosquito distributions at thirty villages along the Kenyan coast. *Journal of Medical Entomology* 42(3): 241-24
12. **Keating J**, Macintyre K, Mbogo CM, Githure JI, Beier JC. 2005. Self-reported malaria and mosquito avoidance in relation to human behavior in a Kenyan coastal city. *Journal of Biosocial Science* 37: 761-771

13. Macintyre K, **Keating J**, Okbaldt YB, Zerom M, Sosler S, Gebremeskel T, Eisele TP. 2006. Rolling out insecticide treated nets in Eritrea: examining the determinants of possession and use in malarious zones during the rainy season. *International Journal of Tropical Medicine and Hygiene*, 11: 824-33
14. **Keating J**, Meekers D, Adewuyi A. 2006. Assessing impact of a media campaign on HIV/AIDS awareness and prevention in Nigeria: results from the VISION project evaluation. *BMC Public Health*, 6:123
15. Kibe L, Mbogo CM, **Keating J**, Molyneux S, Githure JI, Beier JC. 2006. Status of community-based vector control activity in Malindi, Kenya. *African Health Sciences*, 6(4): 240-247
16. Mireji PO, **Keating J**, Kenya E, Mbogo CM, Nyambaka H, Osir E, Githure JI, Beier JC. 2007. Differential Induction of Proteins in *Anopheles gambiae sensu stricto* (Diptera: Culicidae) Larvae in Response to Selection by Heavy Metals. *International Journal of Tropical Insect Science* 26(4):213-224
17. Impoinvil DE, Ahmad S, Troyo A, **Keating J**, Githeko AK, Mbogo CM, Kibe L, Githure JI, Gad AM, Hassan AN, Orshan L, Warburg A, Calderon-Arguedas O, Sanchez-Loria VM, Velit-Suarez R, Chadee DD, Novak RJ, Beier JC. 2007. Comparison of mosquito control programs in seven urban sites in Africa, the Middle East, and the Americas. *Health Policy*. Oct: 83 (2-3):196-212
18. Eisele TP, **Keating J**, Bennett A, Londono B, Johnson D, Lafontant C, Krogstad DJ. 2007. Malaria parasite prevalence in the Artibonite Valley of Haiti during the rainy season, 2006. *Emerging Infectious Disease* 13 (10):1494-1496
19. Impoinvil D, **Keating J**, Duncan R, Chowdhury RR, Cardenas G, Githure JI, Mbogo CM, Beier JC. 2007. The association between distance to water pipes and water bodies positive for anopheline larvae (Culicidae: Diptera) in the urban community of Malindi, Kenya. *Journal of Vector Ecology* 32(2): 319-327
20. Caillouet K, **Keating J**, Eisele TP. 2008 Characterization of aquatic mosquito habitat, natural enemies, and immature mosquitoes in the Artibonite Valley, Haiti. *Journal of Vector Ecology* 33(1): 191-197
21. **Keating J**, Eisele TP, Bennett A, Johnson D, Lafontant C, Macintyre K. 2008. Malaria related knowledge, perceptions, and practices in the Artibonite Valley of Haiti. *American Journal of Tropical Medicine & Hygiene* 78(2): 262-269
22. Impoinvil DE, **Keating J**, Mbogo CM, Potts MD, Roy Chowdhury R, Beier JC. 2008. Abundance of immature *Anopheles* and culicines (Diptera: Culicidae) in different water body types in the urban environment of Malindi, Kenya *Journal of Vector Ecology* 33(1): 107-116
23. Mireji PO, **Keating J**, Kenya E, Mbogo CM, Nyambaka H, Kahindi S, Githeko A, Githure JI, Beier JC. 2008. Heavy metals and their impact on mosquito larval habitats in urban Kisumu and Malindi, Kenya. *Ecotoxicology & Environmental Safety*, 70: 147-153
24. Impoinvil DE, Mbogo CM, **Keating J**, Beier JC. 2008. The role of unused swimming pools as habitat for *Anopheles* immature stages in urban Malindi, Kenya. *Journal of the American Mosquito Control Association* 24(3): 457-459
25. Beier JC, **Keating J**, Githure JI, Macdonald MB, Impoinvil DE, Novak RJ. 2008. Integrated vector management for malaria control. *Malaria Journal* 7 (Suppl 1): S4



26. Eisele T, **Keating J**, Littrell M, Larson D, Macintyre K. 2009. A cross-national comparison of insecticide-treated net household possession and use among children under five years old. *Am J Trop Med Hyg* 80: 209-14
27. Londono BL, Eisele TP, **Keating J**, Bennett A, Chattopadhyay C, Heyliger G, Mack B, Rawson I, Jean-Francois V, Disinor O, Krogrsatd DJ. 2009. Chloroquine-resistant Haplotype *Plasmodium falciparum* Parasites in Haiti, *Emerging Infectious Disease* 15(5): 735-740
28. **Keating J**, Miller J, Bennett A, Moonga H, Eisele TP. 2009. *Plasmodium falciparum* parasite infection prevalence from a household survey in Zambia using microscopy and a rapid diagnostic test: implications for monitoring and evaluation. *Acta Tropica* 112: 277-282
29. Mireji PO, **Keating J**, Kenya E, Mbogo CM, Nyambaka H, Osir E, Githure JI, Beier JC. 2010. Expression of Metallothionein and Alpha Tubulin Genes in *Anopheles gambiae* sensu stricto (Cullididae: Diptera) in Response to Selection by Heavy Metals. *Ecotoxicology & Environmental Safety: Ecotoxicology and Environmental Safety* 73 46–50
30. Mireji PO, **Keating J**, Hassanali A, Mbogo CM, Muturi MN, Githure JI, Beier JC. 2010. Biological Cost of Heavy Metal Resistance in *Anopheles gambiae*. *Medical and Veterinary Entomology* 24, 101–107
31. Krogstad D, Diop S, Diallo A, Mzayek F, **Keating J**, Koita O, Toure YT. 2010. Informed consent in developing countries; the rationale for different approaches. *American Journal of Tropical Medicine & Hygiene* 83(4): 743-747.
32. Londono B, Eisele TP, **Keating J**, Carvajal D, Palacios D, James M, Wesson D. 2010. Antibody response against *Anopheles albimanus* (Diptera: Culicidae) salivary protein as a measure of mosquito bite exposure in Haiti. *J. Med Entomology* 47: 1156-1163.
33. Larson DA, **Keating J**, Miller JM, Bennett A, Changufu C, Eisele TP. 2010. Barriers to Insecticide-Treated Bed Net Possession 1 Year After a Mass Free Distribution Campaign in Luangwa District, Zambia. *PlosOne* 5(11): e13129.
34. Eisele TP, Miller JM, Monga HB, Hamainza B, **Keating J**. 2011. Malaria Infection and Anemia Prevalence in Zambia's Luangwa District: An Area of Near-Universal Insecticide-Treated Mosquito Net Coverage. *American Journal of Tropical Medicine & Hygiene* 84:152-157.
35. Maloney KM, Ancca-Juarez J, Salazar R, Borrini-Mayori, Pamo-Tito D, **Keating J**, Levy MZ .2011. Secondary Kill Effect of Deltamethrin on *Triatoma infestans*. *Journal of Medical Entomology* 48(4):929-933.
36. Agha S, Fareed A, **Keating J**. 2011. Clinical training alone is not sufficient for reducing barriers to IUD provision among private providers in Pakistan. *Reproductive Health* 8:40.
37. Macintyre KM, Littrell, M, **Keating J**, Hamainza B, Miller JM, Eisele TP. 2011. Determinants of hanging and use of ITNs in the context of near universal coverage in Zambia. *Health Policy and Planning* June 6 PMID 21652576.
38. **Keating J**, Locatelli A, Gebremichael A, Ghebremeskel T, Mufunda J, Mihreteab S, Berhane D, Carneiro P. 2011. Evaluating indoor residual spray for reducing malaria infection prevalence in Eritrea: results from a community randomized control trial. *Acta Tropica* 119: 107-113.

39. Londono B, Eisele TP, **Keating J**, Bennett A, Krogstad D. 2012. Msp1 and msp2-based Estimates of Genetic diversity in the merozoite surface protein 1 and 2 genes of *Plasmodium falciparum* from the Artibonite Valley of Haiti. *Acta Tropica* 121 (1): 6-12.
40. Doumbia S, Ndiaye D, Koita OA, Diakite M, Nwakanma D, Coulibaly M, Traore SF, **Keating J**, et al. 2012. Improving malaria control in West Africa: Interruption of transmission as a paradigm shift. *Acta Tropica* 121: 175-183
41. Rider MA, Byrd BD, **Keating J**, Wesson D, Caillouet K. 2012. PCR detection of malaria parasites in desiccated *Anopheles* mosquitoes is uninhibited by storage time and temperature. *Malaria Journal* 11:193.
42. Yukich JO, Bennett A, Albertini A, Incardona S, Moonga H, Chisha H, Hamainza B, Miller JM, **Keating J**, Eisele TP, Bell D. 2012. Reductions in artemisinin-based combination therapy consumption following the nationwide scale up of routine malaria rapid diagnostic testing in Zambia. *Am J Trop Med & Hyg*, DOI: 10.4269/ajtmh.2012.12-0127.
43. Joshua Yukich, Michael Bretscher, Adam Bennett, Olivier Briet, Thomas Eisele, **J Keating**, Thomas Smith. 2012. Estimating *Plasmodium falciparum* transmission rates in low-endemic settings using a combination of community prevalence and health facility data. *Plos ONE* 7(8): e42861.
44. **Keating J**, Hutchinson P, Miller JM, Bennett A, Larsen DA, Hamainza B, Changufu C, Shiliya N, Eisele TP. 2012. A quasi-experimental evaluation of an interpersonal communication intervention to increase insecticide treated net use among children in Zambia. *Malaria Journal*: 11:313.
45. Eisele TP, Larsen DA, Anglewicz PA, **Keating J**, Yukich J, Bennett A, Hutchinson P, Steketee RW. 2012. Malaria prevention in pregnancy is associated with reductions in low birth weight and neonatal mortality: a meta-analysis of 32 national cross-sectional datasets in Africa. *Lancet Infectious Diseases*, Dec;12(12):942-9. doi: 10.1016/S1473-3099(12)70222-0.
46. Eisele TE, Rhoda DA, Cutts FT, **Keating J**, Ren R, Barros AJD, Arnold F. 2013. Need for considering total survey error for interpreting intervention coverage estimates from household surveys. *PLoS Medicine* 10(5): e1001386. doi:10.1371/journal.pmed.1001386
47. Eisele TP, Samilbe K, Yukich YO, Hamainza B, **Keating J**, Miller JM. 2013. Accuracy of measuring diagnosis and treatment of childhood malaria from household surveys in Zambia. *PLoS Medicine* 10(5): e1001417. doi:10.1371/journal.pmed.1001417
48. Ouldzeidoune N, **Keating J**, Bertrand J, Rice J. 2013. A description of female genital mutilation and force-feeding in Mauritania: implications for the protection of child rights and welfare. *PLoS ONE*, April 09, 2013: 0.1371/journal.pone.0060594.
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### **Editorials and Op-Ed Articles**

1. Eisele TP, Larsen DA, Anglewicz PA, **Keating J**, Yukich J, Bennett A, Steketee RW. 2013. Weighing for results: assessing the effect of IPTp - Authors' reply. *Lancet Infect Dis*. Apr 13(4):292-3. doi: 10.1016/S1473-3099(13)70060-4.
2. **Keating J** and Eisele TP. 2011 Epidemiological changes in malaria morbidity following malaria control scale-up. *Lancet Infectious Diseases* 11(12): 891-892.
3. Eisele TP, Thwing J, **Keating J**. 2011. Claims about the misuse of insecticide-treated mosquito nets: Are these evidence-based? *PlosMed*, Apr 8(4):e1001019.
4. **Keating J**, Krogstad D, Eisele TP. 2010. Malaria elimination on Hispaniola: why Hispaniola and why now? *Lancet Infectious Diseases* 10 (May): 291-293.

### **Publications – Technical Reports**

1. **Keating J.** (2007) Nigeria Reproductive Health, Child Health, and Education Household, School, and Health Facility Midline Surveys, 2007: Executive Summary. MEASURE Evaluation Technical Report Series, [tr-07-63A-en]
2. **Keating J.** (2007) Nigeria Reproductive Health, Child Health, and Education Household, School, and Health Facility Midline Surveys, 2007. MEASURE Evaluation Technical Report Series, [tr-07-63B-en]
3. **Keating J.** (2006) Nigeria Reproductive Health, Child Health, and Education Household, School, and Health Facility Baseline Surveys, 2005: Executive Summary MEASURE Evaluation Technical Report Series, No. 39a
4. **Keating J.** (2006) Nigeria Baseline Health Facility Survey, 2005. MEASURE Evaluation Technical Report Series, No. 39b
5. **Keating J.** (2006) Nigeria Baseline Primary School Headmaster and Teacher Survey, 2005. MEASURE Evaluation Technical Report Series, No. 39c
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7. Agha S, Escudero G, **Keating J**, Meekers D. (2003). Nigeria (Bauchi, Enugu, Oyo) Family planning and reproductive health survey 2002. MEASURE Evaluation Technical Report Series, No. 16a
8. Agha S, Escudero G, **Keating J**, Meekers D. (2003). Nigeria (Bauchi, Enugu, Oyo) Family planning and reproductive health survey 2002. MEASURE Evaluation Technical Report Series, No.16b

### **Presentations / Published Abstracts**

1. Presentation by Eisele/abstract (2012). Malaria prevention in pregnancy is associated with reductions in low birth weight and neonatal mortality: a meta-analysis of 32 national cross-sectional datasets in Africa. *American Society of Tropical Medicine and Hygiene Annual Meeting*. Atlanta, GA USA November 15<sup>th</sup>
2. Poster presentation/abstract (2012). Measuring Plasmodium falciparum transmission in low-endemic settings using a combination of community prevalence and health facility data *American Society of Tropical Medicine and Hygiene Annual Meeting*. Atlanta, GA USA November 13<sup>th</sup>
3. Presentation by Yukich & Keating/abstract (2012). Monitoring trends in malaria morbidity at epidemic detection sites in Oromia Region, Ethiopia using SMS technology and supervisory visits. Symposium: Every Last Case: Innovations in Malaria Surveillance in Low-Income Settings *American Society of Tropical Medicine and Hygiene Annual Meeting*. Atlanta, GA USA November 13<sup>th</sup>
4. Presentation by Larsen/abstract (2012). The effectiveness of a single round of mass malaria screening and treatment in southern Zambia. *American Society of Tropical Medicine and Hygiene Annual Meeting*. Atlanta, GA USA November 12<sup>th</sup>
5. Poster presentation/abstract (2011). Ethiopia Epidemic Detection Project, Tulane University, Addis Continental Institute of Public Health, Oromia Regional Health Bureau, PMI/USAID/E, Federal

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- Ministry of Health – Ethiopia: Use of Health Extension Workers for rapid malaria surveillance and epidemic detection. Epidemic Detection Stakeholder meeting Addis Ababa, Ethiopia. December 19<sup>th</sup> 2011.
6. Poster presentation (2011). Examination of travel histories as risk factors for malaria in Adami Tulu woreda, Ethiopia. Epidemic Detection Stakeholder meeting. Addis Ababa, Ethiopia. December 19<sup>th</sup> 2011.
  7. Poster presentation/abstract (2011), Paradigm Shift from Reducing Malaria Morbidity and Mortality to the interruption of transmission. *Annual Meeting of the American Society of Tropical Medicine and Hygiene*. Philadelphia, PA.
  8. Presentation by Yukich/abstract (2011). Reductions in Artemisinin-based combination therapy consumption following the nationwide scale up of routine malaria rapid diagnostic testing in Zambia. American Society of Tropical Medicine and Hygiene Annual Meeting, Philadelphia, PA, December 6<sup>th</sup>
  9. Presentation by Keating. ONE annual meeting (a national organization that addresses extreme poverty). Presentation focused on malaria and poverty in Africa. Spring 2010, New Orleans LA.
  10. Presentation by Keating (2008), *Resources in Infectious Disease*. Association for Population/Family Planning 41<sup>st</sup> Annual Conference, New Orleans, LA
  11. Presentation by Eisele/Abstract (2008). Assessment of insecticide-treated bednet use among children and pregnant women across fifteen countries using standardized national surveys. 57<sup>th</sup> *Annual Meeting of the American Society of Tropical Medicine and Hygiene*. New Orleans, LA.
  12. Poster presentation/Abstract (2007). The prevalence of *Plasmodium falciparum* infection in the Artibonite Valley of Haiti rainy season, 2006. 56<sup>th</sup> *Annual Meeting of the American Society of Tropical Medicine and Hygiene*. Philadelphia, PA.
  13. Poster presentation/Abstract (2007). Malaria related knowledge, perceptions, and practices in the Artibonite Valley of Haiti. 56<sup>th</sup> *Annual Meeting of the American Society of Tropical Medicine and Hygiene*. Philadelphia, PA.
  14. Poster presentation/Abstract (2005). Rolling out insecticide treated nets in Eritrea: Examining possession and use. 133<sup>rd</sup> *Annual Meeting of the American Public Health Association (APHA)*. Philadelphia, PA.
  15. Presentation by Keating/Abstract (2005). Improving family planning and reproductive health in Nigeria: *Results from the VISION project evaluation*. 133<sup>rd</sup> *Annual Meeting of the American Public Health Association (APHA)*. Philadelphia, PA.
  16. Poster presentation/Abstract (2003). Linking field-based ecological data with remotely sensed data using a geographic information system in two urban malaria endemic areas of Kenya. 52<sup>nd</sup> *Annual Meeting of the American Society of Tropical Medicine and Hygiene*. Philadelphia, PA.
  17. Presentation by Keating (2004), Institute for the African Child-Focus on Malaria, Ohio University, Athens OH. Urban malaria epidemiology in Africa.
  18. Presentation by Keating (2004), Geographic methods in malaria research. *NIAID International Centers for Tropical Disease Research Network, 13<sup>th</sup> Annual Meeting*, Bethesda MD.



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19. Presentation by Keating (2002). Examining the determinants of mosquito control practices in two Kenyan cities. Keating J, Macintyre K. *Society for Applied Anthropology Annual Conference*, Atlanta GA.

### External Lectures/Seminars

1. **Lecturer** (April 2004), Department of Natural Science Seminar Series, Marian University, Indianapolis IN. Audience was senior students and faculty within the science departments. Focus on malaria ecology in Eritrea
2. **Lecturer** (April 2005), Department of Natural Science Seminar Series, Marian University, Indianapolis IN. Audience was senior students and faculty within the science departments. Focus on monitoring and evaluation in public health
3. **Lecturer** (March 2006), Butler University Change and Tradition Seminar Series, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria in Africa.
4. **Lecturer**. ID 204 Butler University, Indianapolis Indiana. Change and Tradition class. Lectures focused on health in Haiti and malaria in Africa. Undergraduate level: Spring 2005 and Spring 2006.
5. **Lecturer** (March 2007), Butler University Change and Tradition Seminar Series, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria in Haiti.
6. **Lecturer** (April 2008), Butler University Change and Tradition Seminar Series, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria and mosquito ecology in Africa.
7. **Lecturer**. CC 209 Butler University, Indianapolis Indiana. Global and Historical Studies class. Lectures focused on health and development in West Africa. Undergraduate level: Spring 2007 and Spring 2008
8. **Lecturer** (April 2009), Butler University Change and Tradition Seminar Series, Indianapolis, Indiana. Audience is faculty, students, and community members. Focus on malaria control and prevention in Africa.
9. **Key-note speaker** (October 2009). Marian University Richard Lugar Global Studies Alumni Seminar, Marian University, Indiana. Audience was faculty, students, drug-industry personnel, alumni, and community members. Focus on malaria in Africa and Haiti, and why different models are needed.
10. **Lecturer** (October 2009). Indiana University School of Medicine, Indianapolis, Indiana. Audience was medical students and faculty at IUPUI campus; lecture focused on the epidemiology of malaria in Africa.
11. **Guest Presentation**. RESULTS diseases of poverty week. Lecture focused on malaria and poverty in the context of achieving elimination. Undergraduate level. Fall 2009 (approximately 20 students).
12. **Guest Presentation**. Butler House Honors Lecture Night. Lecture focused on malaria transmission in Africa and the implications for elimination. Undergraduate level: Fall 2009 & Fall 2012 (approximately 17 students).

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13. **Lecturer** (April 2010), Butler University Change and Tradition Seminar Series, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria elimination in Africa.
14. **Guest Lecturer** (January 2010), University of Zambia. Taught two-week course on Monitoring and Evaluation in International Health. Audience was graduate MPH students.
15. **Radio Interview** (May 2010), 1240 AM in Humacao, Puerto Rico [www.waloradio.com](http://www.waloradio.com). This radio show interview focused on the feasibility of malaria elimination in the Caribbean and the risk of malaria emergence in other Caribbean countries.
16. **Key-note Speaker**, Tulane University SPHTM Open House. Interdisciplinary approaches to vector-borne disease research in Africa: Spring 2011
17. **Key-note Speaker**, Kent State University, Public Health Speaker Series. Malaria Elimination in Africa and Haiti: What is Needed? Spring 2011 (Students community members, and faculty).
18. **Key-note Speaker**, Tulane University 2011 Open House. Interdisciplinary approaches to vector-borne research in Africa (Approximately 100 students and parents).
19. **Lecturer** (January 2011), University of Zambia. Taught two-week course on Monitoring and Evaluation in International Health. Audience was 2<sup>nd</sup> year graduate MPH students.
20. **Lecturer** (May 2011 and May 2013), University of Suriname. Taught one-week course on Monitoring and Evaluation in International Health. Audience was 1<sup>st</sup> year graduate MPH students.
21. **Radio Interview** (July 2011). BBC The World. Discussion about shifts in malaria morbidity and vector resistance in West Africa.
22. **Key-note Speaker** (December 2011), Indiana University Medical School, Department of Biology. Audience was students and faculty.
23. **Guest Presentation**, Butler House Honors Lecture Night. Lecture focused on tropical disease prevention and control. Undergraduate level: Spring 2011 (approximately 27 students).
24. **Lecturer** (October 2011). Indiana University Department of Biology Seminar Series, Indianapolis, Indiana. Audience was graduate students and faculty at IUPUI campus; lecture focused on the epidemiology of malaria in Africa.
25. **Lecturer** (January 2012), University of Zambia. Taught one-week course on Monitoring and Evaluation in International Health. Audience was 1<sup>st</sup> & 2<sup>nd</sup> year graduate MPH students.
26. **Lecturer** (April 2012), Butler University Change and Tradition Seminar Series, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria elimination in Africa.
27. **Lecturer** (2012 & 2013) Masters International brown bag lunch seminar series. Audience was MPH students preparing for Peace Corps service. Focus on IRB requirements for practicum research projects.
28. **Lecturer** (April 2014), Butler University, School of Pharmacy, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria elimination in Africa.

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29. **Lecturer** (April 2015), Butler University, School of Pharmacy, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria in Africa.
30. **Lecturer** (March 2017), Butler University, School of Pharmacy, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria in Africa.
31. **Lecturer** (March 2018), Butler University, School of Pharmacy, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria in Haiti.
32. **Lecturer** (March 2019), Butler University, School of Pharmacy, Indianapolis, Indiana. Audience was faculty, students, and community members. Focus on malaria elimination.

## Selected Grants and Contracts

RFA-663-13-000007                                  Keating (PI)                                  07/2014-06/2022  
Strengthening Malaria Monitoring and Evaluation Systems (SMMES) of Ethiopia Program  
Grant amount \$1,200,000

**USAID/ACIPH**

The focus of this grant is on providing technical assistance on malaria epidemic detection and impact evaluation to the Regional Health Bureaus and PMI in Ethiopia.

U19    Keating (Investigator)                                  10/2010 – 09/2017  
Don Krogstad (PI)  
International Center for Excellence in Malaria Research (ICEMR)  
Grant amount: \$12,000,000

**National Institute of Allergy and Infectious Disease (NIH)**

This 7-year, peer-reviewed umbrella research grant assesses epidemiological and entomological dynamics related to malaria transmission, genetic diversity, prevention and control at 4 sites in The Gambia, Mali, and Senegal.

DFID    Keating (Co-PI)                                  09/2012 – 10/17  
Jane Bertrand (Admin PI), David Hotchkiss (Co-PI)  
Evaluation of the Impact of the ASSP (*Accès aux Soins de Santé Primaires*) Project in the Democratic Republic of Congo  
Grant amount : \$5,000,000

**DFID/IMA**

This 5 year impact evaluation focuses on: Conducting a panel study over 5 years, which includes a baseline, midline and endline household and health facility surveys.

GAT.1487-08643-SUB                                  Keating (Investigator)                                  04/2010 – 03/2016  
Thom Eisele (PI)  
Technical Support to MACEPA for Malaria M & E  
Grant amount: \$912,382

**Partnership for Appropriate Technology in Health, (PATH)**

This sub-award is focused on developing research protocols, teaching courses, and providing technical input in support of malaria monitoring and evaluation in Tanzania, Zambia, and Ethiopia. We are currently conducting a community randomized control trial to test effectiveness of fMDA for interrupting transmission.

Associate Award    Keating (Activity Lead)                                  09/2012 – 09/2014  
Monitoring and Evaluation Capacity Building in Kenya



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The major goal of this project is to provide technical assistance and training to health workers at health facilities in Ethiopia. Data generated is being used to monitor progress towards malaria elimination.

HRN-1-00-99-00011-00                      Keating (Investigator)                      8/2006 – 03/2007

Thom Eisele (PI)

Malaria Transmission in Haiti

Sub-agreement: US\$200,000

### **USAID**

The specific aim of this project is to obtain population-based data on the burden of malaria within the Artimonite Valley of Haiti to help guide public health strategies to control malaria and measure results.

Cooperative agreement/Task Order                      Keating (Activity Lead)                      10/2003-10/2008

Stacey Gage (PI)

### **USAID**

MEASURE/Evaluation: Measuring Tuberculosis and Malaria for national program evaluation – Global: Nigeria Impact Evaluation

Activity: \$450,000 (2005-2006) & \$500,000 (2007-2008)

The major goal of this project is to strengthen the evidence base for monitoring the effectiveness of public health programs. My role was to provide M & E technical assistance, including study design, survey methodology, training and data analysis to the COMPASS Project in Nigeria.

Research Enhancement Fund                      Keating (M-PI)                      11/2006 – 12/2008

Keating (PI)/Eisele (PI)

### **Tulane University**

Grant amount: \$35,000

This project supported ongoing research of malaria in the Artibonite Valley of Haiti to collect parasitological and entomological data, and perform laboratory analyses. This grant was a dual PI mechanism with Thom Eisele.

Cooperative Agreement/Task Order                      Keating (Investigator)                      10/2004 – 08/2006

Kate Macintyre (PI)

### **USAID**

Integrated Vector Management for Improved Control of Malaria and other Infectious Diseases

The major goal of this project is to support the technical development of IVM through collaborative work with relevant international institutions, continued operations research and dissemination of relevant findings. My role was to design and implement a household survey to collect malaria indicator data for measuring bed net use in Eritrea, as well as develop population based indicators for monitoring and evaluation indoor residual spraying programs.

## **Service**

### **Departmental Service**

1. Master of Public Health Program Director – 01/2013 – present
2. GHSD Practicum Fund Director – 01/2013 – 01/2014
3. GHSD MPH admissions committee member – 01/2013 - present
4. Acting Chair, July 28 – August 19, 2012; September 4-7, 2012; July 30-August 16, 2013
5. Member, doctoral program committee, 2008 - 2010
6. Member doctoral comprehensive exam committee, 2006-2012
7. Doctoral student committee member

### **School of Public Health and Tropical Medicine Service**

1. Secretary of the School Faculty, 6/2009 – 6/2010
2. Vice Chair of School Faculty, 07/2010 – 06/2011

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3. Chair of School Faculty, 07/2011 – 06/2012
4. Delta Omega Society, Eta Chapter, Secretary/Vice President/President (2007-2010)
5. Member of Dean's Research Council (12/2011 – 2013)
6. Member, Panel to select Centennial Leaders in Global Health Award candidates (July 2012)
7. SPHTM Honor Board (07/2012 – 06/2013)
8. SPHTM Grievance Committee (as Chair of General Faculty), 2012
9. SPHTM Nominating Committee, 2013
10. COVID 19 Task Force 2020 - present

### **University Service:**

1. Member Student Conduct Joint Hearing Board: 2008
2. Alternate Member Biomedical Institutional Review Board (IRB), 12/2006 – 11/2012
3. Regular Member Biomedical Institutional Review Board (IRB), 12/2012 – present
4. Vice-chair Biomedical IRB 2016
5. Chair, Biomedical IRB 2017 - present
6. SOPA Executive Committee member 2020 – present
7. Conflict of Interest Committee 2016 – present
8. Institutional Conflict of Interest Committee 2019 – present
9. Associate Deans Council 2015- present

### **Service outside the University**

1. 2014-2021: Grant Review Panel member, United States Army Research and Materials Command, malaria section.
2. 2012-2016: Academic Editor, *PlosONE*
3. 2013: World Bank, Scientific evaluation review
4. 2013: Reviewer, *International Journal of Tropical Insect Science*
5. 2013: Reviewer, *Journal of Entomology and Nematology*
6. 2012: Nunez Community College, Chalmette LA: STEM Camp – presentation
7. 2012: Reviewer, *Journal of Public Health and Epidemiology*
8. 2012: Reviewer, *African Journal of Biochemical Research*
9. 2011: Reviewer, *Journal of Biosocial Science*
10. 2011: Reviewer, *The Lancet*
11. 2011: Warren Easton High School: STEM career day - presentation
12. 2012: Reviewer, *African Journal of Biochemistry Research*
13. 2012-2014: Behavior Change Communication for Malaria working group, Johns Hopkins University SPH, Committee member
14. 2011, 2012, 2013, 2014: Grant Reviewer, Wellcome Trust
15. 2009-2012: Reviewer, *Lancet Infectious Diseases*
16. 2009-2012: Reviewer, *PlosONE*
17. 2010: Royal Tropical Society, Grant reviewer
18. 2010: Reviewer, *Central European Journal of Biology*
19. 2009-present: Reviewer, *Malaria Journal*
20. 2009-2017: Reviewer, *Acta Tropica*
21. 2009-present: Reviewer, *American Journal of Tropical Medicine and Hygiene*
22. 2008, 2013: Grant Reviewer, Medical Research Council (MRC)
23. 2008-2021: Grant Reviewer, Military Infectious Disease Research Program (MIDRP)– vector biology
24. 2008-2012: Advisor, National Malaria Control Program, Asmara Eritrea
25. 2008: Minority International Health Research Training (MIHRT): mentor to Mali students
26. 2006-2007: Reviewer, *Journal of Health Education Research*
27. 2005-2009: Reviewer, *International Journal of Health Geographics*
28. 2004-2010: Reviewer, *Journal of Vector Ecology*
29. 2002: Reviewer, *Journal of Biomedical Engineering*

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30. 2002-2008: Reviewer, *Journal of Insect Science and its Applications*
31. 2002, 2012: Reviewer, *Journal of Insect Science and its Applications*
32. 2002: Reviewer, *Journal of Biomedical Engineering*