




Hillary Mariko Topazian

CONTACT INFORMATION	Department of Infectious Disease Epidemiology School of Public Health Imperial College London White City Campus London W12 7TA, UK	 : +44 (0)78 6241 6965  : h.topazian@imperial.ac.uk  : htopazian.github.io
PERSONAL STATEMENT	Post-doc at Imperial College London in the Department of Infectious Disease Epidemiology. Holds a PhD in Epidemiology with experience living and working in Malawi and Kenya through academic and governmental positions. Has technical skills in R, QGIS, SAS, and geospatial analysis.	
EDUCATION	PhD, Epidemiology University of North Carolina at Chapel Hill	2021
	MSc, Epidemiology Harvard T.H. Chan School of Public Health	2017
	BS, Biology, (minor in Economics) Wheaton College (IL) <i>magna cum laude</i>	2013
EXPERIENCE	Postdoctoral Research Associate in Malaria Epidemiology Department of Infectious Disease Epidemiology Imperial College London	2021 – present
	Graduate Research Assistant: HPTN 068; RTS,S malaria vaccine implementation; HPV vaccination recommendation UNC Project-Malawi, Lilongwe, Malawi Institute for Global Health and Infectious Disease University of North Carolina at Chapel Hill	2017 – 2021
	Research Assistant Center for Global Cancer Medicine Dana-Farber Cancer Institute, Boston, MA	2015 – 2016
	Cancer Research Training Award Fellow Consultant Center for Global Health, National Cancer Institute Leidos Biomedical Research, Inc. Ministry of Health and the Kenya Medical Research Institute Nairobi, Kenya	2016
	Cancer Research Training Award Fellow Center for Global Health National Cancer Institute, Rockville MD	2014 – 2015
	Volunteer World Gospel Mission Tenwek Hospital, Bomet, Kenya	2014

COMMUNITY ENGAGEMENT	Epidemiologist and Malaria Modeller Malaria No More United Kingdom https://www.x.zeromalaria.org/	2024
	Disaster Assistance Response Team Technical Advisor Samaritan's Purse, Boone, NC	2021
HONORS AND AWARDS	MRC Centre for Global Infectious Disease Analysis Pump-priming award for young investigators Imperial College London	2022 – 2023
	(ASTMH) Annual Meeting Travel Award American Society of Tropical Medicine and Hygiene	2021
	Dissertation Completion Fellowship Graduate School University of North Carolina at Chapel Hill	2020 – 2021
	Explorations in Global Health Grant Institute for Global Health & Infectious Diseases University of North Carolina at Chapel Hill	2019 – 2020
	The Nancy A. Dreyer Scholarship in Epidemiology Gillings School of Global Public Health University of North Carolina at Chapel Hill	2019 – 2020
	Epidemiology Student Travel Award to Lilongwe, Malawi Gillings School of Global Public Health University of North Carolina at Chapel Hill	2019
	Doctoral Merit Assistantship Award Graduate School University of North Carolina at Chapel Hill	2017 – 2018
	Luys Scholar Luys Foundation, Yerevan, Armenia	2016 – 2017
	Rose Traveling Fellowship recipient to Nairobi, Kenya Harvard T.H. Chan School of Public Health	2016 – 2017
	Graduated <i>magna cum laude</i> Wheaton College (IL)	2013

- [1] Asante KP, Mathanga DP, Milligan P, Akech S, Oduro A, Mwapasa V, Moore KA, Kwambai TK, Hamel MJ, Gyan T, Westercamp N, Kapito-Tembo A, Njuguna P, Ansong D, Kariuki S, Mvalo T, Snell P, Schellenberg D, Welega P, Otieno L, Chimala A, Afari EA, Bejon P, Maleta K, Agbenyega T, Snow RW, Zulu M, Chinkhumba J, Samuels AM; **Malaria Vaccine Programme Evaluation Partners**. Feasibility, safety, and impact of the RTS,S/AS01E malaria vaccine when implemented through national immunisation programmes: evaluation of cluster-randomised introduction of the vaccine in Ghana, Kenya, and Malawi. *Lancet*. 2024. 403(10437):1660-1670.
- [2] Zulu MD, Msuku H, Stanley CC, Phiri VS, **Topazian HM**, Chinkhumba J, Hoffman IF, Juliano JJ, Mathanga DP, Mvalo T. An intervention to improve lumbar puncture rates for meningitis surveillance in children at four secondary health facilities in Malawi: A before/after analysis. *Tropical Medicine & International Health*. 2024. 29(6):499-506.
- [3] Schmit N*, **Topazian HM***, Natama MH, Bellamy D, Traoré O, Some AN, Rouamba T, Tahita MC, Bonko MA, Sourabié A, Sorgho H, Stockdale L, Provstgaard-Morys S, Aboagye J, Woods D, Rapi K, Datto MS, Ramos Lopez F, Charles G, McCain K, Ouédraogo J, Hamaluba M, Ologu A, Dicko A, Tinto H, Hill AVS, Ewer K, Ghani A, Winskill P. The public health impact and cost-effectiveness of the R21/Matrix-M malaria vaccine: a mathematical modelling study. *The Lancet Infectious Diseases*. 2024. 24(5):465-475.
- [4] Schmit N*, **Topazian HM***, Pianella M*, Charles GD, Winskill P, White MT, Hauck K, Ghani AC. Resource allocation strategies for insecticide-treated bed nets to achieve malaria eradication. *eLife*. 2024. 8:12:RP88283
- [5] **Topazian HM**, Schmit N, Gerard-Ursin I, Charles GD, Thompson H, Ghani AC, Winskill P. Modelling the relative cost-effectiveness of the RTS,S/AS01 malaria vaccine compared to investment in vector control or chemoprophylaxis. *Vaccine*. 2023. 41(20):3215-3223.
- [6] Fornace KM, **Topazian HM**, Routledge I, Asyraf S, Kelip J, Lindblade KA, Jaeffree MS, Cuenca PR, Bhatt S, Ahmed K, Ghani AC, Drakeley C. No evidence of sustained nonzoonotic *Plasmodium knowlesi* transmission in Malaysia from modelling malaria case data. *Nature Communications*. 2023. 14:2945.
- [7] Morgan CE, **Topazian HM**, Brandt K, Mitchell C, Mwandagalirwa MK, Muwonga J, Sompwe E, Juliano JJ, Bobanga T, Tshetu A, Emch ME, Parr JB. Association between domesticated animal ownership and *Plasmodium falciparum* parasite prevalence in the Democratic Republic of Congo. *The Lancet Microbe*. 2023. 4(7):E516-E523.
- [8] Todd J, **Topazian HM**, Zulu M, Mafunga P, Mapanje C, Gondwe JK, Chagomerana M, Hoffman I, Juliano J, Mvalo T. RTS,S vaccination is associated with reduced parasitemia and anemia among children diagnosed with malaria in the outpatient department of a district hospital in rural Malawi. *Frontiers in Epidemiology*. 2022. 2:1039414.

- [9] **Topazian HM**, Moser KA, Ngasala B, Oluoch PO, Forconi CS, Mhamilawa LE, Aydemir O, Kharabora O, Deutsch-Feldman M, Read AF, Denton M, Lorenzo A, Mideo N, Ogutu B, Moormann AM, Mårtensson A, Odwar B, Bailey JA, Akala H, Ong'echa JM, Juliano JJ. Low complexity of infection is associated with molecular persistence of *Plasmodium falciparum* in Kenya and Tanzania. *Frontiers in Epidemiology*. 2022. 2:852237.
- [10] Chipanta D, Pettifor A, Edwards J, Giovenco D, **Topazian HM**, Bray RM, Millington MC, Estill J, Kelser O, Justman JE. Access to social protection by people living with, at risk of, or affected by HIV in Eswatini, Malawi, Tanzania, and Zambia: results from population-based HIV impact assessments. *AIDS and Behavior*. 2022. 26(9):3068-3078.
- [11] Tegha G, **Topazian HM**, Kamthunzi P, Howard T, Tembo Z, Mvalo T, Chome N, Kumwenda W, Mkochi T, Hernandez A, Ataga KI, Hoffman IF, Ware RE. Prospective newborn screening for sickle cell disease and other inherited blood disorders in central Malawi. *Int J Public Health*. 2021. 66:629338.
- [12] Mwachiro M*, **Topazian HM***, Kayamba V, Mulima G, Ogutu E, Erkie M, Lenga G, Mutie T, Mukhwana E, Desalegn H, Berhe R, Meshesha BR, Kaimila B, Kelly P, Fleischer D, Dawsey SM, Topazian MD. Gastrointestinal endoscopy capacity in Eastern Africa. *Endosc Int Open*. 2021. 9:e1827-1836.
- [13] Niyonkuru A, McLaughlin E, Heath G, Inamuco S, **Topazian HM**, Davis M. Healthcare professional preferences for prescribing artemisinins and quinine for malaria in Burundi. *East African Health Research Journal*. 2021. 5(2): 172-179.
- [14] **Topazian HM***, Gumbo A*, Edwards JK, Brandt K, Goel V, Kayange M, Mvalo T, Emch M, Pettifor A, Smith J, Juliano JJ, Hoffman I. Effectiveness of a national mass distribution campaign of long-lasting insecticide-treated nets and indoor residual spraying on clinical malaria in Malawi, 2018–2020. *BMJ Global Health*. 2021. 6:e005447.
- [15] Chinula L, **Topazian HM**, Mapanje C, Varela A, Chapola J, Limarzi L, Stanley C, Hosseinipour M, Gopal S, Tang JH. Uptake and safety of community-based “screen-and-treat” with thermal ablation preventive therapy for cervical cancer prevention in rural Lilongwe, Malawi. *International Journal of Cancer*. 2021. 149(2):371-377.
- [16] Hajayandi A, McLaughlin E, Lwabanya IM, **Topazian H**. Etat de connaissance du paludisme par le personnel soignant et les patients concernant un signe spécifique « goût amer » : à propos de 450 cas. [Heath care personnel and patients' knowledge of malaria specifically in regards to “bitter taste”: 450 cases]. *Revue Médicale de Bujumbura*. n°32 Juin 2020: 51-57.
- [17] Chung MH, De Vuyst H, Greene SA, **Topazian HM**, Sayed S, Moloo Z, Cagle A, Nyongesa-Malava E, Luchters S, Temmerman M, Sakr SR, Mugo NR, McGrath CJ. Loop electrosurgical excision procedure (LEEP) plus top hat for HIV-infected women with endocervical intraepithelial neoplasia in

Kenya. International Journal of Gynecology and Obstetrics. 2021. 152:118-124.

- [18] **Topazian HM**, Gumbo A, Puerto-Meredith S, Njiko R, Mwanza A, Kayange M, Mwalilino D, Mvula B, Tegha G, Mvalo T, Edwards JK, Emch M, Pettifor A, Smith JS, Hoffman I, Meshnick SR, Juliano JJ. Asymptomatic Plasmodium falciparum malaria prevalence among adolescents and adults in Malawi, 2015-2016. Scientific Reports. 2020. 10:18740.
- [19] Mitchell CL*, **Topazian HM***, Brazeau NF, Deutsch-Feldman M, Muwonga J, Sompwe E, Tshetu AK, Mwandagaliirwa MK, Parr JB, Juliano JJ. Household prevalence of P. falciparum, P. vivax, and P. ovale in the Democratic Republic of the Congo, 2013-2014. Clinical Infectious Diseases. 2021. 73(11):e3966-3969.
- [20] Parker RK, Mwachiro MM, **Topazian HM**, Davis R, Nyanga AF, O'Connor Z, Burgert SL, Topazian MD. Gastrointestinal endoscopy experience of surgical trainees throughout rural Africa. Surgical Endoscopy. 2-21. 35(12):6708-6716.
- [21] Ellis GK, Manda A, **Topazian HM**, Stanley CC, Seguin R, Minnick CE, Tewete B, Mtangwanika A, Chawinga M, Chiyoyola S, Chikasema M, Salima A, Kimani S, Kasonkanji E, Mithi V, Kaimila B, Painschab MS, Gopal S, Westmoreland KD. Feasibility of upfront mobile money transfers for transportation reimbursement to promote retention among patients receiving lymphoma treatment in Malawi. International Health. 2021. 13(3):297-304.
- [22] Parker RK, **Topazian HM**, Parker AS, Mwachiro MM, Strain S, White RE, Thelander K, Riviello R. Operative case volume minimums necessary for surgical training throughout rural Africa. World Journal of Surgery. 2020. 44(10):3245-3258.
- [23] Bell GJ, Loop M, **Topazian HM**, Hudgens M, Mvalo T, Juliano JJ, Kamthunzi P, Tegha G, Mofolo I, Hoffman I, Bailey JA, Emch M. Case reduction and cost-effectiveness of the RTS,S malaria vaccine alongside bed nets in Lilongwe, Malawi. Vaccine. 2020. 38:4079-4087.
- [24] **Topazian HM**, Stoner MCD, Edwards JK, Kahn K, Gómez-Olivé FX, Twine R, Hughes JP, Cohen MS, Pettifor A. Variations in HIV risk by young women's age and partner age-disparity in rural South Africa (HPTN 068). JAIDS. 2020. 83(4):350-356.
- [25] Parker RK, **Topazian HM**, Ndegwa W, Chesang P, Strain S, Thelander K, Parker AS, Riviello R. Surgical training through Africa: a review of operative case volumes at multiple training centers. World Journal of Surgery. 2020. 44(7):2100-2107.
- [26] Parker R, Mwachiro M, Rankeeti SS, Mogambi FC, **Topazian HM**, White RE. Curative surgery improves survival for colorectal cancer in rural Kenya. World Journal of Surgery. 2020. 44(1):30-36.
- [27] Mvalo T, **Topazian HM**, Kamthunzi P, Chen JS, Kambalame I, Mafunga P, Mumba N, Chiume M, Paseli K, Tegha G, Kumwenda W, Heimlich JB, Ellis

G, Key N, Gopal S, Hoffman I, Ataga KI, Westmoreland K. Real-world experience using hydroxyurea in children with sickle cell disease in Lilongwe, Malawi. *Pediatric Blood & Cancer*. 2019. 66:e27954.

- [28] **Topazian HM**, Dizon AM, Di Bona VL, Levitz L, Ramos S, Morgan K, Kim CJ, Richter K, de Sanjose S, Smith JS. Adolescent providers' knowledge of human papillomavirus vaccination age guidelines in five countries. *Human Vaccines & Immunotherapeutics*. 2019. 15(7-8):1672-1677.
- [29] Parker RK, Ranketi SS, McNelly C, Ongondi M, **Topazian HM**, Dawsey SM, Murphy GA, White RE, Mwachiro M. Colorectal cancer is increasing in rural Kenya: challenges and perspectives. *Gastrointestinal Endoscopy*. 2019. 89(6):1234-1237.
- [30] **Topazian HM***, Kundu D*, Peebles K, Ramos S, Morgan K, Kim CJ, Richter KL, Brewer NT, Peris M, Smith JS. HPV vaccination recommendation practices among adolescent health care providers in five countries. *Journal of Pediatric & Adolescent Gynecology*. 2018. 31(6):575-582.
- [31] Mwachiro M, Mitchell E, **Topazian HM**, White R. Esophagectomy in patients with human immunodeficiency virus and acquired immune deficiency syndrome: a viable option. *Seminars in Thoracic and Cardiovascular Surgery*. 2018. 30(1):116-121.
- [32] Morgan C, Cira M, Karagu A, Asirwa FC, Brand NR, Buchanan Lunsford N, Dawsey SM, Galassi A, Korir A, Kupfer L, Loehrer PJ, Makumi D, Muchiri L, Sayed S, **Topazian HM**, Welch J, Williams MJ, Duncan K. The Kenya cancer research and control stakeholder program: Evaluating a bilateral partnership to strengthen national cancer efforts. *Journal of Cancer Policy*. 2018. 17:38-44.
- [33] **Topazian HM**, Cira M, Dawsey SM, Kibachio J, Kocholla L, Wanagi M, Welch J, Williams MJ, Duncan K, Galassi A. Joining forces to overcome cancer: the Kenya cancer research and control stakeholder program. *Journal of Cancer Policy*. 2016. 7:36-41.
- [34] Ooko PB, Wambua P, Oloo M, Odera A, **Topazian HM**, White R. The spectrum of paediatric intestinal obstruction in Kenya. *The Pan African Medical Journal*. 2016. 24:43.
- [35] Ooko PB, Saruni S, Oloo M, **Topazian HM**, White R. Ileo-sigmoid knotting: a review of 61 cases in Kenya. *The Pan African Medical Journal*. 2016. 23:198.
- [36] Ooko PB, Saruni S, Oloo M, **Topazian HM**, White RE. Volvulus of the small bowel in adults. *Annals of African Surgery*. 2015. 12(2):81-84.
- [37] Ngeno M, Ooko PB, Seno S, Oloo M, **Topazian HM**, White RE. Role of rigid endoscopic detorsion in the management of sigmoid volvulus. *Annals of African Surgery*. 2015. 12(2):85-88.
- [38] Trimble EL, Chisti AA, Craycroft JA, Duncan K, Gupta M, Gutierrez D, Rosenberg I, Sharara N, Sivaram S, **Topazian HM**, Wang, JJ, Williams MJ, Huang F, Bhatt A. Launching an interactive cancer projects map: a collaborative approach to global cancer research and program

development. *Journal of Global Oncology*. 2015. 1(1):7-10.

- [39] Ooko PB, Sirera B, Saruni S, **Topazian HM**, White R. Pattern of adult intestinal obstruction at Tenwek hospital, in south-western Kenya. *The Pan African Medical Journal*. 2015. 20:31.
- [40] Geda YE, **Topazian HM**, Roberts LA, Roberts RO, Knopman DS, Pankratz VS, Christianson TJ, Boeve BF, Tangalos EG, Ivnik RJ, Petersen RC. Engaging in cognitive activities, aging, and mild cognitive impairment: a population-based study. *The Journal of Neuropsychiatry and Clinical Neurosciences*. 2011. 3(2):149-54.

* co-first authors

PUBLICATIONS
SUBMITTED OR
UNDER-REVIEW

- [1] **Topazian HM**, Charles GD, Schmit N, Pianella M, Marshall JM, Kleinschmidt I, Hauck K, Ghani AC. Estimating the potential impact of surveillance test-and-treat posts to reduce malaria in border regions in sub-Saharan Africa: a modelling study. <https://www.medrxiv.org/content/10.1101/2024.06.28.24309631v1>
- [2] Schmit N, **Topazian HM**, Pianella M, Charles GD, Winskill P, Hancock PA, Sherrard-Smith E, Hauck K, Churcher TS, Ghani AC. Quantifying the potential value of entomological data collection for programmatic decision-making on malaria control in sub-Saharan Africa. *Under review*.
- [3] Gaither C, Morgan C, Kirby R, Karema C, Gashema P, White SJ, **Topazian HM**, Geibrecht D, Thwai K, Boyter K, Munyaneza T, Mambo Muvunyi C, De Dieu Butera J, Bailey JA, Mazaati J, Juliano JJ. Prevalence of falciparum and non-falciparum malaria in the 2014-15 Rwanda Demographic Health Survey. <https://www.medrxiv.org/content/10.1101/2024.01.09.24301054v1>

REPORTS

- [1] **Topazian HM**, Schmit N, Gerard-Ursin I, Charles G, Thompson H, Ghani A, Winskill P. "Modelling the relative cost-effectiveness of the Rts,S vaccine compared to other recommended malaria interventions." 2022. Report for the Global Fund. <https://www.imperial.ac.uk/media/imperial-college/medicine/mrc-gida/2022-09-26-Imperial-College-RTSS-CE-GF-Report.pdf>
- [2] Fornace K, Asyraf S, **Topazian H**, Routledge I, Johnson E, Cuenca PR, Jelip J, Jeffree MS, Sharma RSK, Bhatt S, Ahmed K, Ghani A, Drakeley C. "Analysis of Routinely Collected Malaria Surveillance Data to Assess the Probability of Nonzoonotic *Plasmodium knowlesi* Transmission in Malaysia." 2022. Report for the World Health Organization.
- [3] **Topazian HM**. "Cervical Cancer Prevention in Kenya: A Qualitative Assessment of the National Cervical Cancer Prevention Program." 2016. In collaboration with the US National Cancer Institute's Center for Global Health.

INVITED
PRESENTATIONS

- [1] *Evaluating the Broader Use of R21/Matrix-M to Aid Malaria Elimination: What is the Expected Benefit of Mass Vaccination?* Symposium on Vaccines for Malaria Elimination in Asia and Africa. American Society of Tropical Medicine and Hygiene Annual Meeting, New Orleans, Louisiana. 16 November 2024.
- [2] *Estimating the Potential Impact of Surveillance Test-and-Treat Border Posts to Reduce Malaria in Border Regions in sub-Saharan Africa: A Modelling Study.* Institute for Disease Modelling Symposium, Gates Foundation, virtual. 2 October 2024.
- [3] *The Use of Surveillance Test-and-Treat Posts to Reduce Malaria in Border Regions in sub-Saharan Africa.* Session: Scientific Session I. Applied Malaria Modeling Network (AMMnet) Annual Meeting, Kigali, Rwanda. 18 April 2024.
- [4] *Relative Cost-effectiveness of the RTS,S Vaccine Compared to Existing Malaria Interventions.* A series of online presentations to the Global Fund: June 2022, December 2022, and February 2023.
- [5] *Strategic Introduction of the RTS,S/AS01 Malaria Vaccine Relative to Scale-up of Existing Interventions.* Session: Young Investigator Award Competition. American Society of Tropical Medicine and Hygiene Annual Meeting, Seattle, Washington. 30 October 2022.
- [6] *Modelling the Relative Cost-effectiveness of the RTS,S/AS01 Malaria Vaccine Compared to Investment in Vector Control or Chemoprophylaxis.* Session: Interventions and Targeting. Malaria Modeling Meeting (Bill & Melinda Gates Foundation), Seattle, Washington. 29 October 2022.
- [7] *Modelling the Relative Cost-effectiveness of the RTS,S/AS01 Malaria Vaccine Compared to Existing Malaria Interventions.* Vaccine Congress, Riva del Garda, Italy. 13 September 2022.
- [8] *Effectiveness of a National Mass Distribution Campaign of Long-Lasting Insecticide-Treated Nets and Indoor Residual Spraying on Clinical Malaria in Malawi.* Session: Malaria: Innovations in Malaria Prevention and Control. American Society of Tropical Medicine and Hygiene Annual Meeting, virtual. 20 November 2021.
- [9] *The AfrECC Endoscopy Capacity Study.* Session: Esophageal Cancer in Africa, and the Development of the African Esophageal Cancer Consortium (AfrECC). Digestive Disease Week, virtual conference. 23 May 2021.
- [10] *The AfrECC Endoscopy Capacity Study.* Session: African Esophageal Cancer Consortium and the ASGE. American Society for Gastrointestinal Endoscopy Global Spotlight, virtual. 29 April 2021.

CONFERENCE
POSTER
PRESENTATIONS

- [1] **Topazian HM**, Charles GD, Schmit N, Pianella M, Hauck K, Ghani AC. The use of surveillance test-and-treat posts to reduce malaria in border regions in sub-Saharan Africa. 2023. *Epidemics* 9, Bologna, Italy.
- [2] **Topazian HM**, Schmit N, Gerard-Ursin I, Charles G, Thompson H, Ghani A, Winskill P. Strategic Introduction of the RTS,S/AS01 Malaria Vaccine Relative to Scale-up of Existing Interventions. 2022. ASTMH Annual Meeting, Seattle, Washington. 2023. Imperial Network for Vaccine Research, London, United Kingdom.
- [3] Morgan CE, **Topazian HM**, Mitchell C, Brandt KE, Mwandagilirwa MK, Muwonga J, Sompwe E, Juliano JJ, Bobanga T, Tshefu A, Emch ME, Parr JB. *Plasmodium falciparum* parasite prevalence differs by type of domesticated animal owned by Democratic Republic of Congo (DRC) households. 2022. ASTMH Annual Meeting, Seattle, Washington.
- [4] **Topazian HM**, Gumbo A, Puerto-Meredith S, Njiko R, Kayange M, Mwalilino D, Mvula B, Tegha G, Mvalo T, Meshnick SR, Hoffman I, Juliano JJ. Hidden Reservoir: Asymptomatic *Plasmodium falciparum* Prevalence in Malawian Adolescents and Adults, 2015-2016. 2020. ASTMH Annual Meeting, virtual.
- [5] **Topazian HM**, Michalak M, Mathanga D, Zulu M, Msuku H, Msumba L, Juliano JJ, Hoffman I, Chinkhumba J, Phiri VS, Kondowe D, Maziya K, Mzembe E, Kazanga B, Mvalo T. Malaria Hospitalization Patterns in Central and Southern Malawi Among Children Ages 5-48 Months. 2019. ASTMH Annual Meeting, National Harbor, Maryland. Research and Dissemination Conference, College of Medicine, Lilongwe, Malawi.
- [6] Zulu M, Michalak M, Mathanga D, **Topazian HM**, Msumba L, Juliano JJ, Hoffman I, Chinkhumba J, Msuku H, Phiri VS, Kondowe D, Maziya K, Mzembe E, Kazanga B, Mvalo T. Challenges in Developing a Hospital-Based Malaria Surveillance Program. 2019. ASTMH Annual Meeting, National Harbor, Maryland. Research and Dissemination Conference, College of Medicine, Lilongwe, Malawi.
- [7] Kamthunzi P, **Topazian H**, Mvalo T, Chen J, Kambalame I, Mafunga P, Mumba N, Chiume M, Paseli K, Heimlich JB, Ellis G, Key N, Gopal S, Hoffman I, Ataga K, Westmoreland K. Development of Sickle Cell Diagnostics and a Pediatric Sickle Cell Clinic in Malawi. 2018. American Society of Hematology Annual Meeting, San Diego, California.
- [8] Mvalo T, **Topazian H**, Kamthunzi P, Chen J, Kambalame I, Mafunga P, Mumba N, Chiume-Chiphaliwali M, Paseli K, Key N, Gopal S, Hoffman I, Ataga K, Westmoreland K. Increasing Hydroxyurea Use in Children with Sickle Cell Disease at Kamuzu Central Hospital, Malawi. 2018. American Society of Hematology Annual Meeting, San Diego, California.
- [9] Greene SA, **Topazian HM**, De Vuyst H, McGrath CJ, Richardson BA, John-Stewart G, Cagle A, Nyongesa-Malava E, Yatich N, Kiptinness C, Sakr S, Mugo N, Chung MH. LEEP Treatment of Extensive Cervical Intraepithelial

Neoplasia in HIV-Infected Women. 2018. Conference on Retroviruses and Opportunistic Infections (CROI), Boston, Massachusetts.

- [10] Kariuki G, Oyugi E, Obonyo M, Galgalo T, Githuku J, Boru W, Oele E, Omolo J, Ngere P, Dulacha D, Ng'ang'a A, Karagu A, Brand NR, Cira MK, **Topazian HM**, Lowther S, Gura Z. Evaluation of the National Cervical Cancer Prevention Program, Kenya, 2016. 2017. AORTIC International Conference on Cancer in Africa, Kigali, Rwanda.
- [11] Silkensen SL, Stokes MJ, **Topazian HM**, Duncan K, Flanigan JS. A Longitudinal Analysis of Extramural Cancer Research Projects in LMICs funded by the US National Cancer Institute (NCI). 2016. International Agency for Research on Cancer (IARC) 50th Anniversary Conference, Lyon, France.
- [12] Silkensen SL, **Topazian HM**, Duncan K, Flanigan JS. A longitudinal analysis of the National Cancer Institute's investment in International Research in LMICs. 2016. 7th Annual Consortium of Universities for Global Health (CUGH) Conference, San Francisco, California.
- [13] **Topazian HM** & Silkensen SL. Case Study of the NCI's International Grant Portfolio. 2015. National Institutes of Health Portfolio Analysis Symposium, Bethesda, Maryland.

TEACHING

Imperial College London

Co-organizer

February 2023 Infectious Disease Modelling with a Focus on Malaria;
Serekunda, The Gambia

Co-organizer

November 2022 Infectious Disease Modelling with a Focus on Malaria;
Blantyre, Malawi

Demonstrator

Summer 2022 Mathematical Modelling for the Control of Infectious Diseases;
London, United Kingdom

University of North Carolina Gillings School of Global Public Health

Co-instructor

Spring 2020 R for Epidemiologists

Harvard T.H. Chan School of Public Health

Teaching Assistant

Spring 2017 Ethics of Global Health Research

Fall 2016 Social, Political, and Economic Dimensions of the Control of
Infectious Disease in Low- & Middle-Income Countries

Misc short courses and workshops

Spring 2019: Teaching Assistant, *R Workshop*, North Carolina Institute for Public Health, Durham, North Carolina

Spring 2016: *Youth in Public Health Conference*, Harvard University, Boston, Massachusetts

SUPERVISION *Imperial College London*

Co-supervisor PhD student in Epidemiology, Kelly McCain
2022 - Present "Public health impact of vaccination of pre-erythrocytic malaria vaccines against *P. falciparum* malaria"

Co-supervisor Master's student in Epidemiology, Xinyue Lu
2024 "Malaria vaccine efficacy in older children and adults: a systematic review"

Co-supervisor Master's student in Epidemiology, Nada Alobeid
2024 "Exploring publication bias across the Department of Brain Sciences"

Co-supervisor Master's student in Epidemiology, Oliver Simmons
2023 "Halting cross-border malaria importation between The Gambia and Senegal"

ACADEMIC
SERVICE

Reviewer for
BMC Cancer
Journal of Acquired Immune Deficiency Syndromes
Journal of Global Oncology
Global Health Action
Lancet Infectious Diseases
Malaria Journal
Vaccine

PROFESSIONAL
DEVELOPMENT

12th Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID)
University of Washington, Seattle, WA
July 13-22, 2020
* scholarship recipient

Courses:

Reconstructing Transmission with Genomic Data
Spatial Statistics in Epidemiology and Public Health
MCMC I for Infectious Diseases

Spatial Analysis in QGIS and R
UNC Project-Malawi, Lilongwe, Malawi
July 15-19, 2019; Lilongwe, Malawi

PROFESSIONAL ASSOCIATIONS	<p>Epidemiology consultant for the Pan African Academy of Christian Surgeons (PAACS)</p> <p>Member of the African Esophageal Cancer Consortium (AfrECC)</p> <p>Member of the Applied Malaria Modeling Network (AMMnet)</p>
PERSONAL	<p>Recreational marathoner, including the Boston, Chicago, Brooklyn, and Nashville marathons</p> <p>Former NCAA DIII Cross Country and Track & Field athlete/captain</p> <p>Volunteer with St. Andrew the Great Church, Cambridge, UK</p>