Andrew A. Lover

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MAIN RESEARCH INTERESTS

Focus areas: Infectious disease epidemiology, vector-borne disease, disease surveillance, malariology.
Methodologies: Design, implementation and quantitative analyses of complex epidemiological field studies, including substantial analyses of cross-sectional, longitudinal, geospatial, complex survey sampling, and cohort (survival) datasets in studies related to malaria, dengue, SARS-CoV-2, Zika virus infection, HIV/TB, and nosocomial infections.

EDUCATION

2014 - 2018	University of California, San Francisco		Research fellow
2011 - 2015	National University of Singapore	PhD	Epidemiology
2009 - 2011	National University of Singapore	MPH	Global Health & Epidemiology
2001 - 2003	University of California, Santa Barbara	MS	Organic Chemistry
1993 - 1997	Earlham College	BA	Chemistry

PRINCIPAL POSITIONS HELD

2024 - current	University of Massachusetts, Amherst	Associate Professor, Epidemiology	School of Public Health and Health Sciences
2022 - current	University of Massachusetts, Amherst	Deputy director, NEWVEC	CDC New England Center of Excellence, Vector-borne disease
2018 - 2024	University of Massachusetts, Amherst	Assistant Professor, Epidemiology	School of Public Health and Health Sciences
2014 - 2018	University of California, San Francisco	Research fellow; Epidemiology and Research Coordinator, SE Asia	Malaria Elimination Initiative, Global Health Group
2011 - 2014	National University of Singapore	Epidemiologist	School of Public Health
2011 – 2014 (concurrent)	Regional Epidemic and Disease Intervention (REDI) Centre, Singapore	Field Epidemiology/ Training Coordinator	Epidemiology section

2007 - 2009	Gilead Sciences, Seattle, WA	Associate Scientist	Medicinal Chemistry
2004 - 2007	ICOS Corporation, Bothell, WA	Research Associate	Medicinal Chemistry
2001 - 2003	University of California, Santa Barbara	Graduate Researcher	Chemistry
2000 - 2001	Colorado State University	Research Assistant	Chemistry
1999 - 2000	Hauser Research., Boulder, CO	Research Associate	Drug Development
1998 - 1999	Albany Molecular Research, Albany NY	Research Associate	Drug Discovery

KEY SKILLS AND EXPERTISE

- Design, implementation and quantitative analysis of complex clinical and field epidemiological and entomological studies, including community-randomized trials, and studies in resource-limited settings, focusing on interventions for highest-risk populations.
- Evidence-based health policy and implementation, including national-scale health programming for malaria elimination.

PROFESSIONAL EXPERIENCE

I. Professional experience: Public Health

2024 - current **Associate Professor, Epidemiology**
Department of Biostatistics and Epidemiology, School of Public Health and Health Sciences, University of Massachusetts- Amherst
- Principle investigator for epidemiological studies of infectious disease, especially vector-borne diseases.

(July 2022) – current **Deputy director**
NEWVEC: the New England Center of Excellence in Vector-borne Diseases
- Co-Principle investigator for CDC-funded Center of Excellence to develop, implement and evaluate public health programming to impact vector-borne infections throughout New England.

2018 - 2024 **Assistant Professor, Epidemiology**
Department of Biostatistics and Epidemiology, School of Public Health and Health Sciences, University of Massachusetts- Amherst
- Principle investigator for epidemiological studies of infectious disease, and vector-borne diseases, including malaria, and tick-borne diseases.

2014 – 2018 **Regional Research and Epidemiology Coordinator (Vietnam/Lao PDR)-** Malaria Elimination Initiative, Global Health Group, University of California, San Francisco

- In-country (2014-2016) and US-based (2016-2018) project research and epidemiology coordinator and local lead for a 4-year Bill and Melinda Gates Foundation-funded project, *Preparing for Malaria Elimination in the Greater Mekong Subregion*.
- Key responsibilities are design, field implementation/monitoring and analysis of diverse epidemiological studies to generate an evidence-based program to support the elimination of *Plasmodium falciparum* malaria in Vietnam and Lao PDR.
- Direct supervision of project staff, and all field activities.
- Co-PI for a split-plot village-randomized trial; completed August 2019.
- Other responsibilities include daily project oversight and management, progress reporting, and liaising with both in-country partners, (National Malaria Control Programs, PSI, CHAI, and others) and US-based partners.

2014 (2 months) **Team Leader-** Mid-term evaluation of the PMI/USAID Control and Prevention of Malaria (CAP-M) Project

- Comprehensive desk and field evaluation of a $24 million USD project aimed at reducing morbidity and mortality from malaria and containment of artemisinin-resistant malaria in Cambodia, Myanmar (Burma) and Thailand.
- Led all field work, analysis, and head writer of final report.

2011 – 2014 **Epidemiologist-** Center for Infectious Disease Epidemiology Research (CIDER), Saw Swee Hock School of Public Health, The National University of Singapore (Singapore)

- Key responsibilities included data analysis, project technical support, and comprehensive reporting for a range of infectious disease surveillance and research projects, including design and implementation of syndromic surveillance platforms.

2011 – 2014 **Field epidemiology associate/ Organizer, lecturer, and facilitator**, Regional Epidemic and Disease Intervention (REDI) Centre, Singapore / National University of Singapore (Singapore)

- Planning, facilitation, and lecturing for a range of technical training courses in basic GIS, biostatistics, and data analysis for health staff throughout SE Asia with support from diverse partners.
- Technical and implementation support for regional outbreak and surveillance programs in Southeast Asia.

2010 (2 months) **Co-investigator –** Timor-Leste Integrated Health Assistance (Timor-Leste)

- Field investigation of patterns and barriers to the usage of long-lasting insecticide treated bednets in Timor-Leste.
- Conceived, planned, and organized a qualitative method research study (focus groups) that examined barriers to ITN usage in rural and peri-urban areas of Timor-Leste.

II. Professional experience: Chemistry

2007 – 2009 **Associate Scientist I**- Gilead Sciences (Seattle, WA)

- Medicinal chemistry research into novel therapeutics for respiratory disease, including cystic fibrosis, asthma, and COPD.
- Responsible for independent research design, execution, and characterization of a wide variety of analogues for *in vivo* and *in vitro* evaluation.

2004 – 2007 **Research Associate II/III-** ICOS Corporation (Bellevue, WA)

- Drug discovery research (lead development and optimization) in diverse therapeutic areas including novel antibiotics, inflammation, and oncology.

2001 - 2004 **Graduate Researcher-** University of California, Santa Barbara

- Research in modern organic/organometallic methodologies in Bruce H. Lipshutz' laboratories, directed towards the total synthesis of the biaryl antimalarial natural product korupensamine A.

2000 – 2001 **Graduate Researcher-** Colorado State University (Ft. Collins, CO)

- Research in Robert M. Williams' laboratories directed towards the asymmetric synthesis of unnatural cyclopropane-containing amino acids.

1999 – 2000 **Research Associate II-** Hauser Research Inc. (Boulder, CO)

- Involved in the synthesis, purification and characterization of advanced pharmaceutical intermediates for custom synthesis clients, including derivatization of Taxol® analogues for biological evaluation.

1998 – 1999 **Research Associate-** Albany Molecular Research Inc. (Albany, NY)

- Involved in the combinatorial synthesis and purification of directed pharmacophore libraries.
- Also performed the synthesis and characterization of starting materials and substrates for chemical library generation.

ONGOING RESEARCH COLLABORATIONS

Médecins Sans Frontières/Doctors Without Borders Foundation (Paris) 6/1/2019-current
Design and Evaluation of novel antimicrobial screening platform, with data collection at clinical sites in Mali, Senegal, Jordan and Lao PDR.

Institute for Malariology, Parasitology and Entomology (IMPE) 2018-current
Quy Nhon, Vietnam
Novel vector control interventions for malaria and dengue control.

MAIN RESEARCH FUNDING

Current

Massachusetts Dept. of Public Health (co-PI)	7/2023- 7/2025
"Wastewater testing for state colleges (extension)"	$1.44 million total
	$1.14 million in directs

US Centers for Disease Control and Prevention (co-PI) "New England Center of Excellence in Vector-Borne Diseases"	7/2022- 7/2027 $10 million total $7.9 million in directs

Previous

Massachusetts Dept. of Public Health (co-PI) "Wastewater testing for state colleges"	8/2022- 6/2023 $2 million total $1.6 million in directs
NIAID/NIH (PI) R21 Exploratory Research Grant "Spatial case-control studies to target the human ecology of tick-borne infections"	6/2020 - 5/2024 (NCE) $427,000 total $275,000 in directs
NIGMS/NIH (co-Investigator) R35 Maximizing Investigator's Research Award "Statistical methods for real-time forecasts of infectious disease: dynamic time-series and machine learning approaches"	6/1/2020 - 8/1/2021 $315,000 total $187,000 in directs
UMass Institute for Applied Life Sciences (PI) "Midi" internal grant scheme "SARS-CoV-2 serology in Massachusetts"	5/1/2020 – 8/1/2020 $30,000 total
Foundation for Innovative Novel Diagnostics (PI) Collaborative agreement "Assessing novel serological rapid tests for *Plasmodium vivax*"	1/15/2020 - 8/15/2020 $5,500 USD
The Global Fund for TB, Malaria and HIV (Project manager) Regional Artemisinin-Resistance Initiative-2 "Malaria Elimination Realized through Community-focused Interventions (MERCI)-Vietnam, Laos, and Cambodia" (member grant writing team)	1/1/2018 - 1/1/2022 $6.8 million total to consortium; $950,000 to UCSF
The Bill and Melinda Gates Foundation (Project manager) Global Health and Malaria Program "Preparing the Greater Mekong for Malaria Elimination" (member grant writing team)	11/1/2015 - 11/1/2019 $4.2 million total
US Naval Health Research Center-Asia (NHRC-A) (co-investigator) Broad Agency Announcement (BAA) "Evaluation of Spatial Repellent (SR) Products Under Semi-field Conditions in Hanoi, Vietnam" (co-writer)	1/01/2015 - 6/01/2017 $129,000 total
Communicable Disease Division; Ministry of Health, Singapore (co-investigator) Infectious Diseases Competitive research grant "One Health, Zoonotic Diseases and Pandemic Planning: Creating a Bioethics Framework in Singapore" (technical input)	11/01/2014 - 12/01/2015 $140,000 total

PUBLICATIONS

Google scholar profile: https://goo.gl/SB3bqY
NCBI profile: https://www.ncbi.nlm.nih.gov/myncbi/andrew.lover.2/bibliography/public/

* indicates student/trainee author.

Under review

- Rahman T, Hossain F, Tonmoy TH, Nuvvula S, Chapman BP, Gupta R, Lover AA, Dinglasan R, Carreiro S. "Passive Monitoring of Crowd-Level Cough Counts in Waiting Areas produces Reliable Syndromic Indicator for Total COVID-19 Burden in a Hospital Emergency Clinic" https://doi.org/10.21203/rs.3.rs-3084318/v1

Peer reviewed

37. Cramer E*, Quang NX, Hertz J, Quang HH, Mendenhall I, Lover AA., "Measuring effects of ivermectin-treated cattle on potential malaria vectors in Vietnam: a cluster-randomized entomological trial" (senior author). PLOS Neglected Tropical Diseases 18 (4), e0012014. https://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0012014

36. Ravenhurst J*, Snyder T*, Kaur J*, Chow E*, Pennell S, Goff, SL, Lover AA, "Knowledge, attitudes, and practices regarding COVID-19 among university students and employees in Massachusetts, USA: a qualitative study" (senior author) *J American College Health* (June 2023), https://www.tandfonline.com/doi/full/10.1080/07448481.2023.2225626

35. Ormea V*, Salas CJ, Evaristo R, Lover AA, Ruegg S. "COVID-19 exposes weaknesses in public health in the Peruvian Amazon and highlights opportunities for a One Health approach" (joint senior) *CABI One Health* 2023/4/5. (2023) https://doi.org/10.1079/cabionehealth.2023.00.

34. Byrne I, Cramer EY*, Nelli L, Rerolle F, Wu L, Patterson C, Rosado J, Dumont E, Tetteh KKA, Dantzer E, Hongvanthong B, Fornace KM, Stresman G, Lover AA, Bennett A, Drakeley C. "Characterizing the spatial distribution of multiple malaria diagnostic endpoints in a low-transmission setting in Lao PDR" Frontiers in Medicine 2022 Aug 18;9:929366. doi:10.3389/fmed.2022.929366.

33. McAndrew T, Majumder MS, Lover AA, Venkatramanan S, Bocchini P, Besiroglu T, Codi A, Braun D, Dempsey G, Abbott S, Chevalier S. "Early human judgment forecasts of human monkeypox, May 2022" *The Lancet Digital Health*. 2022 Aug 1;4(8):e569-71. https://www.thelancet.com/journals/landig/article/PIIS2589-7500(22)00127-3/fulltext

32. Rerolle F*, Dantzer E, Phimmakong, T, Lover AA, Hongvanthong B, Phetsouvan Rh, Marshall J, Sturrock H, Bennett A. "Characterizing mobility patterns of forest goers in southern Lao PDR using GPS loggers" *Malaria Journal* **22**, 38 (2023). https://doi.org/10.1186/s12936-023-04468-8.

31. Cramer EY*, Snyder T*, Ravenhurst J*, Lover AA. "The implementation of a participant-collected, mail-based SARS-CoV-2 serological survey in university-affiliated populations: lessons learned and practical guidance." (senior author) *BMC Public Health*, 22(1), 1-9. https://bmcpublichealth.biomedcentral.com/articles/10.1186/s12889-022-14234-1

30. Acer PT*, Kelly LM*, Lover AA, Butler CS. "Quantifying the relationship between SARS-CoV-2 wastewater concentrations and building-level COVID-19 prevalence at an isolation residence" (joint senior) *Intl J of Environmental Research and Public Health*. 2022 Sep 7;19(18):11245. https://doi.org/10.3390/ijerph191811245

29. Kaur J*, Chow E*, Ravenhurst J*, Snyder T*, Pennell S, Lover AA, Goff SL, "Impact of COVID-19 on University Student Mental Health and Recommendations for Universities" (joint senior) *Frontiers in Public Health* 10, 815031, (2022). https://doi.org/10.3389/fpubh.2022.815031

28. Roh M*, Jongsakul K, Lausatianragit K, Sudathip P, Chaitaveep N, Feldman M, Martin NJ, Gosling R, Lover AA, Fukuda M "Civilian and military cooperation is needed to eliminate malaria in Greater Mekong Subregion: Lessons learned from the Sisaket Outbreak" (joint senior) *Malaria Journal*, 20, 458 (2021). https://doi.org/10.1186/s12936-021-03995-6

27. Albsheer M, Lover AA, Saad N*, Muneer MS*, Altinae L, Hamid MA. "Prevalence, molecular characterization and risk factors for glucose-6-phosphate dehydrogenase (G6PD) deficiency within two *Plasmodium vivax* endemic areas, Sudan" *PLOS Neglected Tropical Diseases*, Oct 2021, 15(10), e0009720.

26. Snyder T*, Ravenhurst J*, Cramer EY*, Reich N, Balzer L, Alfandari D, Lover AA "Serological surveys to estimate cumulative incidence of SARS-CoV-2 infection in adults (Sero-MAss study), Massachusetts, July-August 2020: a mail-based cross-sectional study" (senior author); *BMJ Open*, Aug 2021, 2021;11:e051157. doi:10.1136/bmjopen-2021-051157

25. Rerolle F*, Jacobson JO, Wesson P, Dantzer E*, Lover AA, Hongvanthong B, Smith JA, Marshall JM, Sturrock HJ, Bennet A. "Population size estimation of seasonal forest-going populations in southern Lao PDR" Scientific Reports 11, 14816 (2021). https://doi.org/10.1038/s41598-021-94413-z

24. Cramer E*, Quang NX, Hertz J, Quang HH, Mendenhall I, Lover AA., "Ivermectin-treatment in cattle reduces survival in two malaria vector species *Anopheles dirus* and *An. epiroticus* under semi-field conditions, Central Viet Nam." (senior author); *Am J Trop Med Hygiene* 104 (6), 2165, 2021.

23. Rerolle F*, Dantzer E*, Lover AA, Marshall J, Hongvanthong B, Sturrock H, Bennett A. "Spatio-temporal associations between deforestation and malaria incidence in Lao PDR" *Elife* 10; e56974, 2021.

22. Hossain FA*, Lover AA, Corey G, Reich N, Rahman T. "Flusense: a contactless syndromic surveillance platform for influenza-like illness in hospital waiting areas." *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*. 4(1)1:28, 2020. (co-PI)

21. Martin NJ, Nam VS, Lover AA, Phuong TV, Tu TC, Mendenhall IH. "The impact of transfluthrin on the spatial repellency of the primary malaria mosquito vectors in Vietnam: *Anopheles dirus* and *Anopheles minimus*" *Malaria Journal* 19(1) 1-9, 2020. (lead analyst)

20. Lover AA, Dantzer E, Hocini S, Estera R, Rerolle R, Smith JL, Hwang J, Gosling J, Yukich J, Greenhouse J, Jacobson J, Phetsouvanh R, Hongvanthong B, Bennett A. "Study protocol for a cluster-randomized trial to assess the effectiveness of targeted malaria parasite detection among high-risk

populations in Southern Lao PDR (the Acme-Lao study)" Gates Open Research, 3(1730), 1730, 2019.

19. Lover AA, Baird JK, Gosling R, Price RN. "Malaria elimination: time to target all species." *American Journal of Tropical Medicine and Hygiene*, 99(1), 17–23, 2018.

18. Lover AA, Dantzer E*, Hongvanthong B, Chindavong K, Welty S, Reza T*, Khim N, Menard D, Bennett A. "Prevalence and risk factors for asymptomatic malaria and genotyping of glucose-6-phosphate dehydrogenase (G6PD) deficiencies in a vivax-predominant setting, Lao PDR: Implications for sub-national elimination goals" *Malaria Journal*, 17(1), 218, 2018.

17. Kattenberg JH, Erhart A, Truong MH, Rovira-Vallbona E, Vu KAD, Nguyen THN, Nguyen VH, Bannister-Tyrrell M, Theisen M, Bennet A, Lover AA, Tran TD, Nguyen XX, Rosanas-Urgell A. "Characterization of *Plasmodium falciparum* and *Plasmodium vivax* recent exposure in an area of significantly decreased transmission intensity in Central Vietnam" *Malaria Journal*, 17(1), 180, 2018.

16. Chen I, Thanh HNT, Lover AA, Thao PT, Luu TV, Than NH, Thang ND, Neukom J, Bennett, A. "Malaria risk factors and care-seeking behaviour within the private sector among high-risk populations in Vietnam: a qualitative study" *Malaria Journal*, 16(4), 515, 2017.

15. Lover AA, Harvard KE, Lindawson AE, Gueye CS, Shrett R, Gosling R, Feachem RA. "Regional initiatives for malaria elimination: Building and maintaining partnerships" *PLOS Medicine* 14(10): e1002401. https://doi.org/10.1371/journal. pmed.1002401, 2017.

14. Lover AA, Gosling RG, Feachem RA, Tulloch J. "Eliminate now: seven critical actions required to accelerate elimination of *Plasmodium falciparum* malaria in the Greater Mekong Subregion" *Malaria Journal* 15(1), 518; doi: 10.1186/s12936-016-1564-3, 2016.

13. Cavailler P, Tarantola A, Leo YS, Lover AA, Rachline A, Duch M, Huy R, Quake AL, Kdan Y, Duong V, Brett JL, Buchy P. "Early diagnosis of dengue disease severity in a resource-limited Asian country" *BMC Infectious Diseases*. 16; doi:10.1186/s12879-016-1849-8, 2016.

12. Lover AA. "Considerations for comprehensive analyses of sporozoite-based controlled human malaria infection studies" *American Journal of Tropical Medicine and Hygiene* 93(6): 1130-1133, 2015.

11. Capps B, Bailey MM, Bickford D, Coker R, Lederman Z, Lover AA, Lysaght T and Tambyah P. "Introducing One Health to the ethical debate about zoonotic disease in Southeast Asia" *Bioethics* 29(8): 588-596, 2015.

10. Lover AA, and Coker RJ. "Do mixed infections matter? Assessing virulence of mixed-clone infections in experimental human and murine malaria" *Infection, Genetics and Evolution* 36: 82-91, 2015.

9. Lover AA, Zhao X, Gao Z, Coker RJ, Cook AC. "The distribution of incubation and relapse times in experimental infections with the malaria parasite *Plasmodium vivax*" *BMC Infectious Diseases* 14(1), 539, 2014.

8. Thida A, Tun STT, Zaw SKK, Lover AA, Cavailler P, Chunn J, Aye MM, Par P, Naing WK, Zan KN,

Shwe M, Kyaw TT, Waing ZH, Clevenbergh P. "Retention and risk factors for attrition in a large public health ART program in Myanmar: a retrospective cohort analysis" *PLOS ONE* 9(9): 108615, 2014.

7. Lover AA, Bucy P, Rachline A, Moniboth D, Huy R, Meng CY, Leo YS, Yuvatha K, Sophal U, Ngan C, Buthin Y, Duong V, Goyet S, Brett J, Tarantola A, and Cavailler P. "Spatial epidemiology and predictors of pediatric dengue infections captured via sentinel site surveillance, Phnom Penh Cambodia 2011-2012" *BMC Public Health* 14(1): 658, 2014.

6. Lover AA, and Coker, RJ. "Re-assessing the relationship between sporozoite dose and incubation period in *Plasmodium vivax* malaria: a systematic re-analysis" *Parasitology* 141(6): 859-868, 2014.

5. Lover AA, Hartman M, Chia KS, Heymann DL. "Demographic and spatial predictors of anemia in women of reproductive age in Timor-Leste: implications for health program prioritization" *PLOS ONE* 9(3): 91252, 2014.

4. Balm MN, Lover AA, Salmon S, Tambyah PA, Fisher DA. "Progression from new methicillin-resistant *Staphylococcus aureus* colonisation to infection: an observational study in a hospital cohort" *BMC Infectious Diseases* 13: 491, 2013.

3. Lover AA, and Coker, RJ. "Quantifying effect of geographic location on epidemiology of *Plasmodium vivax* malaria" *Emerging Infectious Diseases* 19(7):1058-1065, 2013.

2. Lover AA, Sutton BA, Asy AJ, Wilder-Smith A. "An exploratory study of treated-bed nets in Timor-Leste: patterns of intended and alternative usage" *Malaria Journal* 10: e199, 2011.

1. Lipshutz BH, Servesko JM, Petersen TB, Lover AA. "Asymmetric 1,4-reductions of hindered β-substituted cycloalkenones using catalytic SEGPHOS-ligated CuH" *Organic Letters* 6(8): 1273-1275, 2004.

Review Article

1. Lover, AA. "Malaria" entry for *The International Encyclopedia of Primatology* Wiley-Blackwell, (DOI: 10.1002/9781119179313), June 2017.

Other Publications/preprints

XIII. Ravenhurst J, Snyder T, Wallace KF, Pennell S, Goff SL, Lover AA. "Knowledge, attitudes, and practices regarding COVID-19 among university students and employees in Massachusetts, USA: a qualitative study" medRxiv. 2022:2022-07. https://www.medrxiv.org/content/10.1101/2022.07.05.22277273v1

XII. Lover A, Noymer A (2022) "Seasonality of human orthopoxvirus infections" OSF Preprint. https://doi.org/10.31219/osf.io/stke3

XI. Cramer EY, Quang NX, Hertz JC, Nguyen DV, Quang HH, Mendenhall H, Lover AA. "Measuring effects of ivermectin-treated cattle on malaria vectors in Vietnam: a village-randomized trial" medRxiv. 2023:2023-02. https://www.medrxiv.org/content/10.1101/2023.02.09.23285706v1

X. Cramer EY, Snyder T, Ravenhurst J, Lover AA. "Lessons Learned from the Implementation of a

Participant-Collected, Mail-Based SARS-CoV-2 Serological Survey in Massachusetts, USA" *medRxiv*, 2021. https://www.medrxiv.org/content/10.1101/2021.08.13.21262052v1

IX. Lover, AA. "Quantifying treatment effects of hydroxychloroquine and azithromycin for COVID-19: a secondary analysis of an open label non-randomized clinical trial (Gautret et al, 2020)" *medRxiv* https://www.medrxiv.org/content/10.1101/2020.03.22.20040949v2

VIII. Lover, AA and McAndrew T. "Sentinel event surveillance to estimate total SARS-CoV-2 infections, United States" *medRxiv*, 2020. https://doi.org/10.1101/2020.03.17.20037648

VII. Lover, AA. "Zika virus and microcephaly" *The Lancet Infectious Diseases* 16 (12): 1331-1332, 2016.

VI. Lover AA. "Serological evidence for localized and persistent antibody response in Zika virus-positive neonates with microcephaly (Brazil, 2015)- a secondary analysis" bioRxiv, http://biorxiv.org/content/early/2016/05

V. Lover, AA. "Study Variability in Recent Human Challenge Experiments with *Plasmodium falciparum* Sporozoites (PfSPZ Challenge)." *arXiv:1505.01316 [q-Bio, Stat]*, May 2015. http://arxiv.org/abs/1505.01316.

IV. Lover AA. "Note on the origin of the Madagascar strain of *Plasmodium vivax*" *American Journal of Tropical Medicine and Hygiene* 91(6): 1283, 2014.

III. Lover AA, and Kelley, JF. "Mid-term performance evaluation: control and prevention of malaria (CAP-Malaria) in Burma, Cambodia and Thailand." Report prepared for USAID Regional Development Mission for Asia (RDMA); May 2014. https://pdf.usaid.gov/pdf_docs/PA00JWRP.pdf

II. Lover AA, and Coker RJ. "The challenges of malaria elimination" *The Lancet* 382(9906): 1699-1700, 2013.

I. Wilder-Smith A, Lover A, Kittayapong P, Burnham G. "Hypothesis: Impregnated school uniforms reduce the incidence of dengue infections in school children" *Medical Hypotheses* 76(6): 861-862, 2011.

Patent Issued

1. Dudler T, Farouz F, Fowler K, Hawthorn N, Huang D, Jin B, Kim M, Lover A, Odingo J, Oliver A, Reed M, Ruan F, and Thorsett E. "Substituted Phenyl Acetic Acids as DP2 Antagonists"; (ICOS Corporation), WO/2007/146838 (PCT/US2007/070805), 2007

INVITED TALKS

No.	Date	Location, Event	Title, link
1.	Oct. 26, 2016	Philadelphia, Am Soc Trop Med Hyg Annual Mtg	"Scaling up spatial decision support systems for malaria elimination in Vietnam"
2.	Mar. 4, 2020	Amherst College	"Scholars dissect COVID-19 at Amherst College roundtable" Daily Collegian link
3.	Mar. 5, 2020	UMass, SPHHS	Invited special seminar, "COVID-19 (Coronavirus)" Recording link
4.	Apr. 24, 2020	UMass Institute for Applied Life Sciences	"COVID-19 Town Hall and Q&A-Recap, plus Sero-Mass study" UMass link
5.	Apr. 28, 2020	MA State Senate Health Committee	Invited expert, COVID response hearings
6.	May 7, 2020	UMass Life Science Cafe	"Covid-19 Panel featuring University of Massachusetts faculty" Recording link
7.	Aug. 12, 2020	UMass UWW; Alumni Relations; School of Public Health and Health Sciences	"Special Forum: Moving Forward: COVID-19 Reopening Pathways" Forum link
8.	Sept. 2020, (Sept. 2022)	Intl. Congress for Tropical Medicine and Malaria, Bangkok Thailand	"Ivermectin-based vector elimination for public health" (postponed, due to COVID) Conference website
9.	Sept. 17, 2020	Massachusetts Soc. of Professors Union	Invited expert talk, MSP Environmental Health and Safety Committee
10.	Oct 19, 2020	UMass SPHHS	SPHHS Dean's forum
11.	Nov. 19, 2020	UMass Comp. Social Science Initiative	"COVID-19, College Campuses, and Contact Tracing UMass link
12.	May 10, 2021	MA State Senate Health Board	MA legislature Joint Hearing, SAPHE 2.0
13.	June 16, 2021	Asia-Pacific Malaria Elimination Network	TechTalk: "Ivermectin-based Vector Control, Viet Nam" APMEN link
14.	Jul 15, 2021	National Society for College and University Planning (SCUP)	Annual SCUP meeting, invited talk "Pandemic Public Health Responses Across Campus"
15.	Sept. 3,2022	Univ. of Maine-Orono, Ecology Dept. Seminar Series	"Targeting high-risk populations for sustainable public health entomology: studies in Vietnam & Western Massachusetts"

16.	Dec. 5, 2022	Northeast Mosquito Control Association, Hyannis MA	**"Operational research in public health entomology & vector control-where are we, and how can we do more?"**
17.	Feb. 17, 2023	UMass Inst. for Diversity Sciences	**"Identifying and targeting highest-risk groups to maximize health program impacts"**
18.	Apr. 21, 2023	Northeast Regional Center for Excellence in Vector-Borne Diseases Annual Mtg, New Haven CT	**"ITCH surveys- Is Tick Control Helping?"**
19.	May 1, 2023	Lehigh University, College of Health; Statistical Communications: Infectious Diseases	**"Identifying and targeting highest-risk groups to maximize health program impacts"**

Conference abstracts

No.	Date, Location	Authors, Title, conference
1.	2015, Philadelphia	Sutamihardja, Awalludin; Nguyen, Phuc T; Vu, Dung K; Nguyen, Van T; Hoang, Hang B; Nguyen, Phu H; Nguyen, Xa X; Nguyen, Anh Q; Tran, Duong T; Martin, Nicholas; Thang D Ngo, Maciej Boni, Andrew A Lover, Colin Ohrt. *Quality Assessment Of Malaria Diagnostics In Vietnam With Potential Impact On Malaria Elimination Operations*- **American Soc of Trop Med & Hygiene Annual Conf**.
2.	2015, Philadelphia	Kelly, Gerard C; Nguyen, Thang X; Ngo, Thang D; Lover, Andrew A; Pham, Hung Q; Martin, Nicholas; Nguyen, Xa X; Nguyen, Anh Q; Ngo, Thinh D; Tran, Duong T; *Implementing Enhanced High-Resolution Surveillance Using Spatial Decision Support Systems (SDSS) To Guide Targeted Rapid Response in Multidrug Resistant Areas Of Vietnam*- **American Soc of Trop Med & Hygiene Annual Conf**.
3.	2015, Philadelphia	Nguyen, Xa X; Pham, Hung Q; Tran, Duong T; Nguyen, Thang X; Lover, Andrew A; Martin, Nicholas; Nguyen, Anh Q; Ohrt, Colin; Ngo, Thang D; . *Malaria Case Investigation In Sentinel Sites In Vietnam*- **American Soc of Trop Med & Hygiene Annual Conf**.
4.	2015, Philadelphia	Boni, Maciej F; Lover, Andrew A; Ngo, Thang D; Nguyen, Thang X; Sutamihardja, Awalludin; Tran, Duong T; Martin, Nicholas; Ohrt, Colin. *Potential Impact Of Rapid Diagnostic Test Diagnostic Error On Increased Malaria Transmission Of Emerging Untreatable Malaria*- **American Soc of Trop Med & Hygiene Annual Conf**.
5.	2016, Atlanta	Lover, Andrew A; Harvard, Kelly; Dawson, Alistair; Gueye, Cara Smith; Gosling, Roly. *Malaria Elimination: Are Regional Initiatives Critical to Its Success*- **American Soc of Trop Med & Hygiene Annual Conf**.
6.	2017, Baltimore	Dantzer, Emily; Lover, Andrew A; Hongvanthong, Bouasy; Chindavongsa, Keobuphaphone; Welty, Susie; Reza, Tania; Nanthana, Vatthana; Hocini, Sophia;

		Bennett, Adam. *Qualitative Findings from a Cross-Sectional Malaria Risk Factor and Parasitemia Survey, Northern Lao PDR*- **American Soc of Trop Med & Hygiene Annual Conf**.
7.	2017, Baltimore	Rerolle, Francois; Lover, Andrew A; Dantzer, Emily; Hocini, Sophia; Sturrock, Hugh; Midekisa, Alemayehu; Hongvanthong, Bouasy; Chindavongsa, Keobuphaphone; Welty, Susie; Reza, Tania. *Deforestation And Land Cover Changes: Drivers of Disappearing Malaria In Northern Lao PDR*- **American Soc of Trop Med & Hygiene Annual Conf**.
8.	2017, Baltimore	Dantzer, Emily; Lover, Andrew A; Hongvanthong, Bouasy; Chindavongsa, Keobuphaphone; Welty, Susie; Reza, Tania; Nanthana, Vatthana; Hocini, Sophia; Bennett, Adam; . *Formative Assessment to Understand and to Target High-Risk Populations for Malaria Infection, Champasak Province, Lao PDR*- **American Soc of Trop Med & Hygiene Annual Conf**.
9.	2017, Baltimore	Lover, Andrew A; Dantzer, Emily; Hongvanthong, Bouasy; Chindavongsa, Keobuphaphone; Welty, Susie; Reza, Tania; Khim, Nimol; Menard, Didier; Bennett, Adam. *Prevalence Of Asymptomatic Malaria Infection and Glucose-6-Phosphate (G6Pd) Deficiency In A Plasmodium Vivax-Endemic Setting, Lao PDR: Implications For Sub-National Elimination Goals*- **American Soc of Trop Med & Hygiene Annual Conf**.
10.	2018, New Orleans	Dantzer, Emily; Lover, Andrew A; Hongvanthong, Bouasy; Hocini, Sophia; Phongluxa, Khampheng; Phetsouvanh, Rattanaxay; Bennett, Adam. *Feasibility And Acceptability Of A Peer Navigator-Led Malaria Focal Test And Treat Intervention Targeting High-Risk Populations In Southern Lao PDR*- **American Soc of Trop Med & Hygiene Annual Conf**.
11.	2018, New Orleans	Scott, Valerie; Lover, Andrew A; Dantzer, Emily; Hongvanthong, Bouasy; Bennett, Adam. *Malaria Elimination in Northern And Central Lao PDR: Assessing Technical, Operational, And Financial Feasibility*- **American Soc of Trop Med & Hygiene Annual Conf**.
12.	2018, New Orleans	Rerolle, Francois; Smith, Jennifer; Lover, Andrew A; Hongvanthong, Bouasy; Hocini, Sophia; Dantzer, Emily; Elyazar, Iqbal; Marshall, John; Bennett, Adam; *Estimating Mobile Forest Workers' Contribution to Malaria Transmission In Southeast Asia: A Mathematical Modeling Approach*- **American Soc of Trop Med & Hygiene Annual Conf**.
13.	2018, New Orleans	Hocini, Sophia; Rerolle, Francois; Lover, Andrew A; Dantzer, Emily; Hongvanthong, Bouasy; Phetsouvanh, Rattanaxay; Bennett, Adam; . *Quantifying Movement Patterns Of Mobile Migrant Populations During A Malaria Focal Test And Treat Intervention In Southern Lao PDR*- **American Soc of Trop Med & Hygiene Annual Conf**.
14.	2018, New Orleans	Lover, Andrew; Mendenhall, Ian; Hertz, Jeffrey; Quang, Nguyen Xuan; Quang, Huynh Hong; . *Ivermectin-Based Malaria Vector Elimination Via Peri-Domestic Cattle Treatment in The Highlands Of Vietnam: Exploratory Studies And Village-Based Trial*- **American Soc of Trop Med & Hygiene Annual Conf**.
15.	2018, New Orleans	Lausatianragit, K; Sudathip, P; Chaitaveep, N; Nonkaew, P; Roh, M; Feldman, M; Raseebut, C; Tabprasit, S; Sriwichai, S; Arsanok, M; Kuntawunginn, W; Kitchakan, S; Boonyarangka P; Phontham K; Uthaimongkol N; Mathavarat C Saingam, P; Chaisatit C; Kirakitvanich, K; Smith, P; Wojnarski, M;, Spring, M;

		Jiarakul, D; Lausatianragit, W; Lover, Andrew A; Pokpong, p; Fukuda, Mark; Jongsaku K; Prempree, P. *Coordinated Thailand Ministry Of Public Health And Royal Thai Army-Us Army Civilian-Military Response To A Malaria Outbreak In Northeast Thailand*- **American Soc of Trop Med & Hygiene Annual Conf**.
16.	2018, New Orleans	Lover, Andrew; Dantzer, Emily; Hongvanthong, Bouasy; Hocini, Sophia; Phongluxa, Khampeng; Rerolle, Francois; Phetsouvanh, Ratanaxay; Estera, Ronaldo; Smith, Jennifer; Yukich, Joshua. *A Community-Randomized Trial Assessing The Effectiveness Of Targeted Active Malaria Case Detection Among High-Risk Populations In Southern Lao PDR: Study Design And Baseline Survey Results*- **American Soc of Trop Med & Hygiene Annual Conf**.
17.	2019, Natl Harbor, MD	Lover, Andrew; Mendenhall, Ian; Hertz, Jeffrey; Quang, Nguyen X; Quang, Huynh H; . *Combined Semi-Field Studies and a Village-Based Trial To Assess The Impact On Anopheline Populations Of Zooprophylaxis-Aided Ivermectin-Based Vector Elimination (ZAIVE) Using Peri-Domestic Cattle Treatment In The Highlands Of Vietnam*- **American Soc of Trop Med & Hygiene Annual Conf**.
18.	2019, Natl Harbor, MD	Dantzer, Emily; Lover, Andrew A; Hongvanthong, Bouasy; Phongluxa, Khampheng; Rerolle, Francois; Hocini, Sophia; Phetsouvanh, Rattanaxy; Bennett, Adam; . *Feasibility And Acceptability of A Peer Navigator-Led Malaria Focal Test And Treat Intervention Targeting High-Risk Populations In Southern Lao PDR*- **American Soc of Trop Med & Hygiene Annual Conf**.
19.	2019, Natl Harbor, MD	Bennett, Adam; Dantzer, Emily; Hongvanthong, Bouasy; Rerolle, Francois; Hocini, Sophia; Smith, Jennifer; Hwang, Jimee; Gosling, Roland; Yukich, Joshua; Greenhouse, Bryan; Phetsouvanh, Rattanaxay; Lover Andrew A. *Targeted Surveillance for Forest-Based Malaria Transmission: Results Of A Cluster Randomized Controlled Trial In Southern Lao PDR*- **American Soc of Trop Med & Hygiene Annual Conf**.
20.	2019, Natl Harbor, MD	Dantzer, Emily; Lover, Andrew A; Hongvanthong, Bouasy; Rerolle, Francois; Hocini, Sophia; Phetsouvanh, Rattanaxay; Bennett, Adam. *Assessing Impacts of Governmental Controls of Illegal Logging On Malaria Transmission In Southern Lao PDR*,2019- **American Soc of Trop Med & Hygiene Annual Conf**.
21.	2020, (virtual)	Howes, Rosalind E.; Gregg, Anya; Harbers, Matthias; Lover, Andrew A.; Puspitasari, Agatha Mia; Noviyanti, Rintis; Marfurt, Jutta; Price, Ric; Dittrich, Sabine; Suarez, Marta Fernandez. *Developing A Serological Rapid Test for An Unmet Diagnostic Niche: the Plasmodium Vivax Hypnozoite*- **American Soc of Trop Med & Hygiene Annual Conf**.
22.	2020, (virtual)	Wu, Lindsey; Nelli, Luca; de Pina, Adilson; Bennett, Adam; Lover, Andrew A.; Rerolle, Francois; Scott, Valerie; Surendra, Henry; Ahmad, Riris A.; Arisanti, Risalia R.; . *Development Of Malaria Freedom from Infection Surveillance Tools to Inform National And Subnational Elimination Strategies*- **American Soc of Trop Med & Hygiene Annual Conf**.
23.	2020, (virtual)	Cramer, Estee Y.; Dantzer, Emily; Rerolle, Francois; Wu, Lindsey; Hongvanthong, Bouasy; Bennett, Adam; Lover, Andrew A. *Spatial Analysis of Malaria Seropositivity In an Area of Rapidly Declining Transmission, Northern Lao PDR (Laos)*- **American Soc of Trop Med & Hygiene Annual Conf**.
24.	2020, (virtual)	Gallalee, Sarah; Dantzer, Emily; Rerolle, Francois; Lover, Andrew A; Hongvanthong, Bouasy; Bennett, Adam. *Forest-Going As A Risk Factor For*

		Confirmed Malaria Cases In Champasack Province, Lao PDR- **American Soc of Trop Med & Hygiene Annual Conf**.
25.	2021, (virtual)	Snyder, Teah R; Dantzer, Emily; Hongvanthong, Bouasy; Rerolle, Francois; Phetsouvanh, Ratanaxay; Bennett, Adam; Lover, Andrew A. *Evaluating Individual and Community-Level Factors Associated with Malaria Knowledge, Attitudes, And Practices Using Baseline Data From A Community-Randomized Trial Assessing The Effectiveness Of Targeted Active Malaria Case Detection Among High-Risk Populations In Southern Lao PDR-* **American Soc of Trop Med & Hygiene Annual Conf**.
26.	2021, (virtual)	Snyder, Teah R; Ravenhurst, Johanna; Wallace, Kate; Chow, Eva; Goff, Sarah; Pennell, Sheila; Lover, Andrew A. *Knowledge, Attitudes, And Practices Regarding SARS-CoV-2 In a University Community, Massachusetts, USA And the Optimization of Covid-19 Response Planning: A Qualitative Study-* **American Soc of Trop Med & Hygiene Annual Conf**.
27.	2022, Seattle	Cramer E, Quang NX, Hertz J, Quang HH, Mendenhall I, Lover AA., *"Zooprophylaxis-aided ivermectin-based vector elimination (ZAIVE), a randomized village-based entomological trial, Central Viet Nam.* **American Soc of Trop Med & Hygiene Annual Conf.** (Presenter- E. Cramer).
28.	2022, Stockholm	Ormea, Verónica; Evaristo, Roberto; Durand, Salomon; Lover, Andrew A.; Ruegg, Simon. *Complex One Health Dilemmas in the Peruvian Amazon: Off-Label Ivermectin Use and Covid-19-* **Intl Sustainable Development Research Society Annual Conf.**

UNIVERSITY AND PUBLIC SERVICE

Service to the profession

Memberships

1993 - 2010 American Chemical Society

2014 - current American Society of Tropical Medicine and Hygiene

2018 - current Society for Epidemiological Research

Service to Professional Publications

2011 – current Ad hoc referee for: *Malaria Journal*, *American Journal of Epidemiology*, *Trends in Parasitology*, *Journal of Clinical Virology*, *Emerging Themes in Epidemiology*, *Parasitology*, *Health Policy and Planning*, *Scientific Reports (Nature), Contemporary International Development, PLOS Neglected Tropical Diseases, Nature Communications, Nature Sustainability.*

2021 Invited mail-in grant reviewer, NIH/NIAID Vector biology (VB) study section (Feb. 16-17).

2020 Invited grant reviewer, UK Medical Research Council, Clinical Fellowship grant (July).

2020-2021 Invited grant reviewer, UK National Institute for Health Research. College of Experts, "Global Effort on COVID-19 (GECO) Health Research" (Two rounds).

2014 Ad hoc invited grant reviewer for Human Frontier Science Program (Strasbourg, France).

University Service- COVID

Semester	Role(s)	Primary responsibilities
Spring 2020	Member, Campus Healthy Fall 2020 Working Group	Sole epidemiology, and infectious disease expert; informed risk/response across all campus committees.
Spring 2020	Chair, Campus Community Risk Assessment subgroup, UMass Health Fall Working Group	Led twice-weekly calls; drafted and revised final sections in report.
Spring 2020	Member, Campus COVID-19 Overall Community Risk Assessment Working Group	Contributed domain-knowledge and risk estimates for all proposed campus activities.
Summer-Fall 2020	Designed and implemented all UMass campus contact-tracing program data systems (v1)	Filed IRB, built REDCap system, developed all user-modules, and iterated platform based on user feedback and changing data needs from DPH.
Summer 2020	Co-designed and co-implemented UMass COVID dashboard	Co-led with L. Balzer the design and complex HIPAA-data pipelines for campus dashboard.
Summer-Fall 2020	UMass Amherst Epidemiologic Advisory Committee	Weekly data assessments and ad hoc analyses responding to campus leadership queries.
Fall 2020	Daily Campus Public Health Response Team Call	Public health input and domain-specific knowledge for all daily campus responses; regular ad hoc analyses to answer specific campus needs.
Fall 2020 – Fall 2023	Designed and implemented all data pipelines for upload of UMass case-contact data to Mass DPH	Designed; responsible for daily uploads (Fall 2020); supervised uploads (Winter 2020- Fall 2023).
Winter 2021	Daily Campus Public Health Response Team Call	Public health input and domain-specific knowledge for all daily campus responses; supervision of data team for ad hoc analyses to respond to specific campus needs.
Winter 2021	Designed data systems, analysis scripts and report writing for daily Situation Report for campus leadership	Solely responsible for reports (Winter); responsible for supervision and vetting of reports (-current) 166 reports, as of end-Jan 2022.
Summer 2021	Epi lead, Campus Wastewater Testing Working Group	Epidemiological design and analysis to inform campus Wastewater sampling.
Fall 2021	Campus Public Health Response Team Call	Public health input and domain-specific

	(twice-weekly)	knowledge for all daily campus responses; supervision of data team for ad hoc analyses to answer specific campus needs.
Fall 2021	Epi lead, Campus Wastewater Testing Working Group	Epidemiological design and analysis to inform campus Wastewater sampling.
Winter 2022	Campus Public Health Response Team Call (twice-weekly)	Public health input and domain-specific knowledge for all daily campus responses; supervision of data team for ad hoc analyses to answer specific campus needs.
Winter 2022	Epi lead, Campus Wastewater Testing Working Group	Epidemiological design and analysis to inform campus wastewater sampling.

Departmental Service

AY '22-23	Department of Epidemiology, School of Public Health and Health Sciences, UMass	Member epidemiology curriculum committee
AY '22-23	Department of Epidemiology, School of Public Health and Health Sciences, UMass	Co-chair, tenure track search committee
AY '18-'19	Department of Epidemiology, School of Public Health and Health Sciences, UMass	Member of departmental curriculum committee
AY '18-'19, '19-'20; '20-'21, '21-'22	Department of Epidemiology, School of Public Health and Health Sciences, UMass	Member of graduate admissions committee
2014	Saw Swee Hock School of Public Health, National University of Singapore	Member of advising committee to solicit feedback for research employees within the School of Public Health.
AY 2013 - '14	Saw Swee Hock School of Public Health, National University of Singapore	Reviewer for MPH global health capstone projects.
AY 2011 – '14	Saw Swee Hock School of Public Health, National University of Singapore	Ad hoc interviewer/reviewer for research faculty candidates (4 reviews submitted).

TEACHING AND MENTORING

Courses taught

AY 2023 – '2	PH390V: Introduction to Public Health Entomology-Vector Control • School of Public Health and Health Sciences, University of Massachusetts, Amherst	Developer and Lead course instructor (Undergraduate elective)
AY 2022 – '23 (Spring)	PH390Z: Pathogens, People and Politics • School of Public Health and Health Sciences, University of Massachusetts, Amherst	Developer and Lead course instructor (Undergraduate elective)
AY 2021 – '22 (Spring)	EPI633: Communicable Disease Epidemiology • School of Public Health and Health Sciences, University of Massachusetts, Amherst	Instructor (Graduate elective)
AY 2020 – '21 (Spring)	PH390EE: Epidemics and Epidemiology • School of Public Health and Health Sciences, University of Massachusetts, Amherst	Co-developer and course instructor (Undergraduate elective)
2020 (Summer)	HPP597C: Navigating COVID-19 Reopening Pathways • UMass Amherst- University Without Walls	Developer and Lead course instructor
AY 2019 – '20 (Fall & Spring)	MICROBIO597Z: Medical Zoology-Parasitology and Epidemiology Literature review	Co-instructor (Graduate elective)
2020 (Spring)	PH390Z: Pathogens, People and Politics • School of Public Health and Health Sciences, University of Massachusetts, Amherst	Developer and Lead course instructor (Undergraduate elective)
2019 (Spring)	MICROBIO597Z: Medical Zoology-Parasitology and Epidemiology Literature review	Co-instructor (Graduate elective)
2019 (Spring)	EPI633: Communicable Disease Epidemiology • School of Public Health and Health Sciences, University of Massachusetts, Amherst	Developer and Lead course instructor (Graduate elective)
2017 (Spring)	PH492: Senior Capstone • School of Public Health and Health Sciences, University of Massachusetts, Amherst	Lead course instructor (Undergraduate required)
2013	CO5103: Quantitative Epidemiological Methods • Saw Swee Hock School of Public Health, National University of Singapore	Teaching assistant-computer lab sectionals
2001-2003	CHEM 6CH: Organic Chemistry Laboratory • Department of Chemistry, University of California, Santa Barbara	Teaching assistant-laboratory sections

Short Courses

2019	Introduction to health data analysis using R • Quy Nhon, Vietnam	Lecturer and facilitator
2015	Regional training course on malaria elimination in the Greater Mekong Subregion (SEARO and WPRO) • Chiang Mai, Thailand; funding: BMGF and WHO	Lecturer and facilitator
2014	Disease Transmission and Outbreak Investigation • Singapore; funding: Singapore Ministry of Defense	Organizer and Lecturer
2014	Asia-Pacific Malaria Elimination Network Surveillance & Response Training Program • Wuxi, PR China; funding: Asia-Pacific Malaria Elimination Network	Lecturer and facilitator
2013	Outbreak Investigation and Acute Response • Ho Chi Minh City, Vietnam; funding: Institut Pasteur; French Embassy- Regional Cooperation Department	Lecturer
2014	Disease Transmission and Outbreak Investigation • Singapore; funding: Singapore Ministry of Defense	Organizer and Lecturer
2012	Epidemiological Methods for Health Research • Ho Chi Minh City, Vietnam; funding: Institut Pasteur	Organizer, Facilitator and Lecturer
2012	HIV Cohort Data Analysis • Mandalay, Myanmar (Burma); funding: The Union Against Tuberculosis and Lung Disease	Organizer, Facilitator, Lecturer, and Program Evaluator
2011	HIV Program Monitoring and Data Analysis • Siem Reap, Cambodia; funding: FHI 360 and USAID	Organizer, Lecturer, and Program Evaluator
2011	Data Management with EpiData • Bali, Indonesia; funding: US CDC; TEPHINET- Training Programs in Epidemiology and Public Health Interventions Network	Organizer, Facilitator and Lecturer
2011	Public Health Surveillance and Introduction to GIS • Phnom Penh, Cambodia; funding: French Ministry of Foreign Affairs; Institut Pasteur	Organizer, Facilitator and Lecturer
2011	EpiData for Data Management and Basic Statistics • Vientiane, Lao PDR; funding: French Ministry of Foreign Affairs; Institut Pasteur; Institut de la Francophonie pour la Médecine Tropicale	Organizer, Facilitator and Lecturer

Mentorship

Student	Level	Role	Dept.	Completion
Olivia Skaltsis	MS	Committee member	Microbiology	Spring 2019
Joseph Williams	BS, Honors thesis	Co-chair	Public Health	Spring 2019
Sai Tun	MPH	Co-chair	Epi	Spring 2019
Gabrielle Silverman	MPH (4+1)	Chair	Epi	Spring 2019
Ashley Moineau	MS	Chair	Epi	Spring 2020
Andrea Rodríguez-Sanchez	MS	Co-chair	Epi	Spring 2020
Lucas Schildbach	MPH	Committee Member	Epi	Spring 2021
Xi Meng	PhD	Committee Member	Biostats	Fall 2021
Patrick Acer	MPH	Chair	Epi	Spring 2022
Keith Allison	MS	Co-chair	Biostats	Spring 2022
Danielle MacCormick	BS, Honors thesis	Chair	Public Health	Spring 2022
Teah Snyder	**PhD**	**Chair**	**Epi**	**May 2023**
Estee Cramer	**PhD**	**Chair**	**Epi**	**Dec 2023**
Johanna Ravenhurst	PhD	Chair	Epi	(TBD)
Mahfuj Alam	PhD	Chair	Epi	(TBD)
Augustine Dada	PhD	Chair	Epi	(TBD)

Continuing Education Courses Attended

2018 Medical-Veterinary Acaraology Short Course ("Tick Week"), Ohio State University, Columbus, Ohio USA.

2012 Global Malaria Elimination Short Course, Karolinska Institute, Stockholm, Sweden.

2010 Outbreak Investigation International Short Course, Singapore.

MEDIA ENGAGEMENT

No.	Date	Outlet	Title, link
1.	Mar. 6, 2020	Mass-Live	**"Coronavirus protection starts with basic hygiene"** Mass Live link
2.	Mar. 12, 2020	Bloomberg Quint.	**"Coronavirus testing gap created public health chaos across US"** Bloomberg Quint. link
3.	Mar. 19, 2020	Newsy- The Briefing	**"Experts: COVID-19 Cases to peak in May without more action"** Google drive video capture
4.	Mar. 19, 2020	Gizmodo	**"Real Number of U.S. Coronavirus Cases Could Be as High as 150,000, New Estimates Suggest"** Gizmodo link
5.	Mar. 20, 2020	FiveThirty Eight	**"Infectious Disease Experts Don't Know How Bad the Coronavirus Is Going To Get, Either"** 538 link
6.	Mar. 24, 2020	Wired Magazine	**"Trump's Itch to Reboot the Economy Would Be a Fatal Error"** Wired link
7.	Mar 25,	WGBY,	**"Coronavirus Myth-busting: Separating Fact from Fiction"**

	2020	Connecting Point	WGBY link
8.	Mar. 26, 2020	NY Times	"Twitter Blocks the Federalist for Promoting Coronavirus Parties" NY Times link
9.	Mar. 26, 2020	Wired Magazine	"Researchers Push for Mass Blood Tests as a COVID-19 Strategy" Wired link
10.	Mar. 26, 2020	FiveThirty Eight	"Experts Say The Coronavirus Outlook Has Worsened, But The Trajectory Is Still Unclear" 538 link
11.	Mar. 26, 2020	Business Insider	"More than a dozen researchers predicted how the US's coronavirus outbreak will end. They estimated nearly 200,000 people could die by the end of the year." Business Insider link
12.	Mar. 27, 2020	Boston Herald	"Coronavirus cases way underreported in Massachusetts, across nation: Experts" Boston Herald link
13.	Apr. 11, 2020	Tampa Bay Herald	"Florida's count of coronavirus deaths is missing some cases" Tampa Bay Herald link
14.	Apr. 13, 2020	WGBH- In It Together	"Daily discussions about COVID-19 in Massachusetts" WGBH link
15.	Apr. 29, 2020	WWLP 22 News, Springfield	"UMass Epidemiologist Answers COVID-19 Questions" WWLP Springfield link
16.	May 2, 2020	The Economist	"The young seem to be less likely to catch or pass on COVID-19" The Economist link
17.	May 3, 2020	Boston Globe	"Massachusetts researchers are on front lines of coronavirus antibody testing" Boston Globe link
18.	May 18, 2020	Boston Globe	"Governor Baker to announce details of Massachusetts reopening today" Boston Globe link
19.	Jun 9, 2020	NBC 10, Boston	"Boston Protesters Urged to Get Free COVID-19 Testing" NBC 10 Boston link
20.	Jun 11, 2020	Metrowest Daily News	"Health directors need critical numbers to know if community spread of coronavirus is decreasing" Metrowest Daily News, Framingham link
21.	Jun 18, 2020	Newsy- The Briefing	"COVID-19 Update with Infectious Disease Expert Andrew Lover" Newsy link
22.	Jul 1, 2020	Politifact	"Social media image about mask efficacy right in sentiment, but percentages are 'bonkers' "Politifact link
23.	Jul 9, 2020	Mass-Live	"UMass volunteers to help study coronavirus exposure on campus, statewide" Masslive link
24.	Sept. 28, 2020	Daily Hampshire Gazette	"UMass team lands $427K grant to pinpoint high-risk tick locations" Daily Hampshire Gazette link
25.	Oct. 8, 2020	WGBH News	"Number Of Massachusetts Cities, Towns with High COVID-19 Rates Nearly Doubles In A Week" WGBH link
26.	Nov. 9, 2020	WGBH News	"Local Public Health Experts Weigh In On Biden's COVID-19 Plan" WGBH link
27.	Dec. 11, 2020	Amherst Weekly Report	"COVID Vaccines and Public Health" Amherst Weekly Report link
28.	Jan. 12, 2021	WGBH News	"New More Contagious Coronavirus Likely In Massachusetts, But Can Be Contained, Say Local Epidemiologists" WGBH link
29.	Jan. 23, 2021	Pro Publica	"We've Let the Worst Happen: Reflecting on 400,000 Dead." Propublica link

30.	Feb. 12, 2021	New York Times	"Will Massachusetts's Vaccine Buddy System Work? Well, It's Worth a Shot" NY Times link
31.	Mar. 25, 2021	WGBH News	"Mass. COVID Numbers Have Stopped Declining. Experts Say They Have An Idea Why" WGBH link
32.	Oct. 31, 2021	Boston Globe	"High school sports on ice: Can there even be a winter season?" Boston Globe link
33.	Dec. 2, 2021	WGBH News	"Experts worry about spiking Mass. COVID case counts, hold out on Omicron judgments" WGBH link
34.	Dec. 5, 2021	Boston Globe	"Coronavirus cases are rising in Mass. How high will they go?" Boston Glove link
35.	Dec. 6, 2021	Tufts Daily News	"What's different about COVID-19 transmission rates on college campuses? Experts weigh in." Tufts Daily News link
36.	Dec. 8, 2021	Boston Globe	"2020 vs. 2021: These charts show the similarities in Massachusetts' COVID-19 surges" Boston Globe link
37.	Dec. 10, 2021	Berkshire Eagle	"The Checkup for Dec. 10: Navigating the pandemic maze" Berkshire Eagle link
38.	Dec. 12, 2021	Boston Globe	"Without statewide mask mandate against COVID-19, Mass. will 'fight this war with one arm tied behind our backs'" Boston Globe link
39.	Dec, 13, 2021	NBC 10, Boston	"Is Baker Bringing Back Massachusetts' Mask Mandate? Here's What He Says" NBC 10 link
40.	Dec. 15, 2021	NE Public Media	"Another major COVID-19 surge in western New England" NE Public Media link
41.	Dec. 20, 2021	Boston Globe	'Tuesday is too late': Health experts urge Biden to move faster amid Omicron threat" Boston Globe link
42.	Jan. 4, 2022	WGBH, All Things Considered	"'No ICU beds left': Massachusetts hospitals are maxed out as COVID continues to surge" WGBH link
43.	Jan. 5, 2022	Boston Globe	"This chart may tell us more about the Mass. COVID surge than any other. Here's why." Boston Globe link
44.	Jan. 11, 2022	WGBH	"As state ignores at-home COVID test data, boards of health come up with their own solutions" WGBH link
45.	Jan. 21, 2022	Spectrum 1 News	"If rapid tests are available will Americans use them?" Spectrum News, Los Angeles link
46.	Jan. 25, 2022	Boston Globe	"Charts show hospitalizations edging down in Mass. as Omicron weakens, but deaths are still rising" Boston Globe link
47.	Feb. 5, 2022	WBGH, Boston	"Experts say not to worry about new version of Omicron detected in Massachusetts" WGBH link
48.	Feb. 15, 2022	Boston Globe	"Mass. loosens recommendation on indoor masking" Boston Globe link
49.	Mar. 10, 2022	WGBH, Boston	"Reflections after 2 years of the pandemic, and looking forward" WGBH, In It Together- Again link
50.	Mar. 11, 2022	WGBH, Boston	"As masks come off, experts warn the pandemic isn't over" WGBH, Boston link
51.	Mar. 16, 2022	Boston Globe	"COVID-19 cases in other countries are rising. How worried should the US be?" Boston Globe link
52.	Mar. 17, 2022	WGBH, Boston	"COVID-19 found in 15% of Massachusetts deer tested" - March 17, 2022. WGBH, Boston link "
53.	Mar. 29, 2022	Boston Globe	"Mass. case numbers, coronavirus levels in waste water tick up from low levels" - Boston Globe link
54.	Apr. 19,	Boston	"CDC estimates new Omicron version accounts for 20 percent of New England

	2022	Globe	COVID-19 cases" Boston Globe link
55.	Apr. 19, 2022	Boston Globe	"Medical experts advise public to keep masking on public transit after federal judge lifts national mandate"- Boston Globe link
56.	Apr. 27, 2022	Boston Globe	"Fauci says US is out of the 'full-blown' pandemic phase. But experts warn the virus still poses a threat"- Boston Globe link
57.	May 19, 2022	Boston.com	"COVID levels in wastewater trend up, indicating current surge will continue" boston.com link
58.	Jun. 2, 2022	Boston Globe	"Number of Mass. counties with high COVID levels has dropped to 5, per CDC" Boston Globe link
59.	Jun. 7, 2022	Boston Globe	"CDC says COVID-19 subvariants BA.4 and BA.5 now account for more than 7 percent of New England cases"- Boston Globe link
60.	Jun. 27, 2022	Boston Globe	"Here's what you need to know about Omicron subvariants BA.4 and BA.5"- Boston Globe link
61.	Jul. 5, 2022	Boston Globe	"Keep a sharp eye out for COVID-19 symptoms now that Fourth gatherings have passed, experts say"- Boston Globe
62.	Jul. 6, 2022	Boston Globe	"State officials are pondering reducing COVID-19 reporting frequency to weekly"- Boston Globe
63.	Jul. 7, 2022	Medscape	"Monkeypox mutating faster than expected"- Medscape
64.	Jul. 7, 2022	WGBH, Boston	"Contagious Omicron subvariants BA.4 and BA.5 now make up majority of New England cases"- WGBH Boston
65.	Jul 11, 2022	Boston Globe	"Coronavirus levels in waste water remain elevated in Eastern Mass. as BA.5 uncertainty persists"- Boston Globe
66.	Aug. 13, 2022	Tampa Bay Times	"Can Baby Boomers quit worrying monkeypox if they were vaccinated against smallpox as kids?" (Guest Column, with Andrew Noymer)- Tampa Bay Times
67.	Aug. 29, 2022	Bakersfield Californian	"Monkeypox won't remain an 'MSM disease' indefinitely, so let's stop treating it that way" (Guest Column, with Andrew Noymer)- August 29, 2022. Bakersfield Californian
68.	Sept. 1, 2022	Boston Globe	"Experts say COVID-19 won't hit as hard this fall, but remain wary of the possible rise of a new variant"- Boston Globe
69.	Sept. 15, 2022	Wired	"Monkeypox Cases in the US Are Falling. There's No One Reason Why"- Wired
70.	Sept. 20, 2022	Boston Globe	" 'I call malarkey.' Biden says COVID-19 pandemic is 'over.' But some experts say not so fast."- Boston Globe
71.	Sept. 28, 2022	Boston Globe	"COVID cases increase sharply among Mass. children and teens as school starts, fall arrives"- MSN/Boston Globe
72.	Sept, 28, 2022	Boston Globe	"The level of coronavirus in Eastern Mass. waste water just shot up"- Boston Globe
73.	Sept. 30, 2022	WGBH, Boston	"Local wastewater shows an uptick in COVID. What does it mean?"- WGBH Boston
74.	Dec. 22, 2022	NY Times	"'Tripledemic' Rages On: Fever-Filled Weeks Lie Ahead"- NY Times
75.	May 11, 2023	WGBH, Boston	"The COVID emergency is expiring in Massachusetts. What happens now?"- WGBH Boston