

ANDREA J. LUND

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ACADEMIC APPOINTMENTS

Postdoctoral Fellow

2021 – present

Department of Environmental and Occupational Health
University of Colorado School of Public Health, Aurora, CO

Postdoctoral Scholar

2020

Department of Biology, Hopkins Marine Station
Stanford University, Pacific Grove, CA

EDUCATION

PhD, Environment and Resources, Stanford University

2020

Dissertation: “Human-environment dynamics in the eco-epidemiology of schistosomiasis”
Fields of inquiry: Ecology of infectious disease and social epidemiology
Reading Committee: Giulio De Leo, Jason Andrews, David Lopez-Carr, David Rehkopf

MPH, Global Epidemiology, Rollins School of Public Health, Emory University

2013

Thesis: “Prevalence of cholera risk factors between migration Haitians and Dominicans in the Dominican Republic”

BA, Biology and Spanish, with *High Distinction*, University of Minnesota – Morris

2011

Study abroad, Duke/OTS Global Health Semester in Costa Rica, Fall 2009

PUBLICATIONS

Published and in press

1. Hopkins SR, Lafferty KD, Wood CL, Olson SH, Buck JC, Childs M, De Leo GA, Fiorella KJ, Fornberg J, Garchitorena A, Howard ME, Jones IJ, Kuris AM, Kwong LH, LeBoa C, Leon AE, **Lund AJ**, MacDonald AJ, Metz DCG, Nova N, Peel AJ, Remais JV, Stewart Merrill TE, Wilson M, Bonds MH, Dobson AP, Lopez-Carr D, Mandle L, Sokolow SH. Diversity and evidence gaps among potential win-win solutions for conservation and human infectious disease control. *Lancet Planetary Health* 6(8): E694-E805 DOI: [https://doi.org/10.1016/S2542-5196\(22\)00148-6](https://doi.org/10.1016/S2542-5196(22)00148-6)
2. Hopkins SR, Jones IJ, Buck JC, LeBoa C, Kwong LH, Jacobsen K, Rickards C, **Lund AJ**, Nova N, MacDonald AJ, Lambert-Peck M, De Leo GA, Sokolow SH 2022. Environmental persistence of the world’s most burdensome infectious and parasitic diseases. *Frontiers in Public Health* 10:892366 DOI: <https://doi.org/10.3389/fpubh.2022.892366>
3. **Lund AJ***, Harrington ES*, Albrecht TR, Hora T, Wall RE, Andarge T 2022. Tracing the inclusion of health as a component of the food-energy-water nexus in dam management in the Senegal River Basin. *Environmental Science & Policy* 133:74-86 DOI: <https://doi.org/10.1016/j.envsci.2022.03.005>
*co-first authors.
4. **Lund AJ**, Sokolow SH, Jones IJ, Wood CL, Ali S, Chamberlin A, Sy AB, Sam MM, Jouanard N, Schacht AM, Senghor S, Fall A, Ndione R, Riveau G, De Leo GA, Lopez-Carr D. Exposure, hazard, and

vulnerability all contribute to *Schistosoma haematobium* re-infection in northern Senegal. *PLOS Neglected Tropical Diseases* 15(10); e0009806 DOI: <https://doi.org/10.1371/journal.pntd.0009806>.

5. Jones IJ, Sokolow SH, Chamberlin A, **Lund AJ**, Jouanard N, Bandagny L, Ndione R, Senghor S, Schacht AM, Riveau G, Hopkins SR, Rohr JR, Remais JV, Lafferty KD, Kuris AM, Wood CL, De Leo GA. Divergent ecological drivers and spatial extents of risk for *S. haematobium* and *S. mansoni* in a co-endemic landscape. *PLOS Neglected Tropical Diseases* 15(9): e0009712 DOI: <https://doi.org/10.1371/journal.pntd.0009712>
6. **Lund AJ**, Rehkopf DH, Sokolow SH, Sam MM, Jouanard N, Schacht AM, Senghor S, Fall A, Riveau G, De Leo GA, Lopez-Carr D 2021. Land use impacts on parasitic infection: a cross-sectional epidemiological study on the role of irrigated agriculture in schistosome infection in a dammed landscape in West Africa. *Infectious Diseases of Poverty* 10:35. <https://doi.org/10.1186/s40249-021-00816-5>
7. **Lund AJ**, Lopez-Carr D, Sokolow SH, Rohr JR, De Leo GA. 2021 Agricultural innovations to reduce the health impacts of dams. *Sustainability* 13:1869 <https://doi.org/10.3390/su13041869>
8. Hopkins S, Sokolow S, De Leo G, Buck J, Jones I, Kwong L, LeBoa C, **Lund AJ**, MacDonald A, Nova N, Olson S, Peel A, Wood C, Lafferty K. 2020. Identifying win-wins for people and nature. *Nature Sustainability*. DOI: [10.1038/s41893-020-00640-z](https://doi.org/10.1038/s41893-020-00640-z)
9. Jones IJ, MacDonald AJ, Hopkins S, **Lund AJ**, Liu ZY, Fawsi NI, Purba MP, Fankhauser K, Chamberlin AJ, Nirmala M, Blundell AG, Emerson A, Jennings J, Gaffikin L, Barry M, Lopez-Carr D, Webb K, De Leo GA, Sokolow SH. 2020. Improving rural health care reduces illegal logging and conserves carbon in a tropical forest. *Proceedings of the National Academy of Sciences* 117(45): 28515-28524 DOI: [10.1073/pnas.2009240117](https://doi.org/10.1073/pnas.2009240117)
10. Chamberlin AJ, Jones IJ, **Lund AJ**, Jouanard N, Riveau G, Ndione R, Sokolow SH, Wood CL, Lafferty KD, De Leo GA 2020. Visualization of schistosomiasis snail habitat using light unmanned aerial vehicles. *Geospatial Health* 15(2):818. DOI: [10.4081/gh.2020.818](https://doi.org/10.4081/gh.2020.818)
11. **Lund AJ**, Sam MM, Sy AB, Sow OW, Ali S, Sokolow SH, Bereknayi Merrell S, Bruce J, Jouanard N, Senghor S, Riveau G, Lopez-Carr D, De Leo GA. 2019. Unavoidable risks: Local perspectives on water contact behavior and implications for schistosomiasis control in an agricultural region of northern Senegal. *American Journal of Tropical Medicine and Hygiene* 101(4): 837-847. DOI: [10.4269/ajtmh.19-0099](https://doi.org/10.4269/ajtmh.19-0099)
12. Wood CL, Sokolow SH, Jones IJ, Chamberlin AJ, Lafferty KD, Kuris AM, Jocque M, Hopkins SR, Adams G, Schneider M, Buck JC, **Lund AJ**, Garcia-Vedrenne AE, Fiorenza E, Rohr JR, Allan F, Webster BL, Rabone M, Webster JP, Bandagny L, Ndione R, Senghor S, Schacht AM, Jouanard N, Riveau G, De Leo GA. 2019. Precision mapping of snail habitats provides a powerful indicator of human schistosomiasis transmission. *Proceedings of the National Academy of Sciences* 116(46): 23182-23191. DOI: [10.1073/pnas.1903698116](https://doi.org/10.1073/pnas.1903698116)
13. Hoover CM, Sokolow SH, Kemp J, Sanchirico JN, **Lund AJ**, Jones I, Higginson T, Riveau G, Savaya-Alkalay A, Coyle S, Wood CL, Micheli F, Casagrandi R, Mari L, Gatto M, Rinaldo A, Perez-Saez J, Rohr JR, Sagi A, Remais JV, De Leo GA. 2019. Prawn aquaculture as a method for schistosomiasis control and poverty alleviation: a win-win approach to address a critical infectious disease of poverty. *Nature Sustainability* 2(7): 611-620. DOI: [10.1038/s41893-019-0451-5](https://doi.org/10.1038/s41893-019-0451-5)

14. Keys HM, Kaiser BN, Foster JW, Freeman MC, Stephenson RS, **Lund AJ**, Kohrt BA. 2017. Cholera control and anti-Haitian stigma in the Dominican Republic: From migration policy to lived experience. *Anthropology & Medicine* 26(2): 123-141. DOI: [10.1080/13648470.2017.1368829](https://doi.org/10.1080/13648470.2017.1368829)
15. Garchitorena A, Sokolow SH, Roche B, Ngonghala CN, Jocque M, **Lund A**, Barry M, Mordecai EA, Daily GC, Jones JH, Andrews JR, Bendavid E, Luby SP, LaBeaud AD, Seetah K, Guegan JR, Bonds MH, De Leo GA. 2017. Disease ecology health and the environment: a framework to account for ecological and socio-economic drivers in the control of neglected tropical disease. *Philosophical Transactions of the Royal Society B*. 372(1722) DOI: [10.1080/13648470.2017.1368829](https://doi.org/10.1080/13648470.2017.1368829)
16. Sokolow SH, Jones IJ, Jocque M, La D, Cords O, Knight A, **Lund A**, Wood CL, Lafferty KD, Kuris AM, Hoover CM, Collender PA, Remais J, Lopez-Carr D, Fisk J, De Leo GA. 2017. Nearly 400 million people are at higher risk of schistosomiasis because dams block the migration of snail-eating river prawns. *Philosophical Transactions of the Royal Society B*. 372(1722): 20160127. DOI: [10.1098/rstb.2016.0127](https://doi.org/10.1098/rstb.2016.0127)
17. **Lund AJ**, Keys HM, Leventhal S, Foster JW, Freeman MC. 2015. Prevalence of cholera risk factors between migrant Haitians and Dominicans in the Dominican Republic. *Revista Panamericana de Salud Pública* 37(3): 125-32. PMID: 25988248.
18. Keys H, Reyes J, Leventhal S, **Lund A**, Batista Berroa DA, Jean-Charles A, Burgos Minaya RY, Foster J. 2014. El cólera y el estigma en la Republica Dominicana. *Revista Panamericana de Salud Pública* 36(1): 63-4. PMID: 25988248.
19. **Lund A**, McMillan JR, Kitron U, Kelly R, Mead DG, Burkot TR, Vazquez-Prokopec G. 2014. Long-term impact of combined sewer overflows (CSO) remediation on water quality and population dynamics of *Culex quinquefasciatus*, the main urban West Nile virus vector in Atlanta, GA. *Environmental Research* 129: 20-26. PMID: 24528998. DOI: [10.1016/j.envres.2013.12.008](https://doi.org/10.1016/j.envres.2013.12.008)
20. Reimer RA, Houlihan AE, Gerrard M, Deer MM, **Lund AJ**. 2012. Ethnic differences in predictors of HPV vaccination: Comparisons of predictors for Latina and non-Latina White Women. *Journal for Sex Research* 50(8): 748-56. PMID: 23030843. DOI: [10.1080/00224499.2012.692406](https://doi.org/10.1080/00224499.2012.692406)

Published book chapters

21. Jones IJ, **Lund A**, Riveau G, Jouanard N, Ndione R, Sokolow SH, De Leo GA. 2018. Ecological control of schistosomiasis in sub-Saharan Africa: restoration of predator-prey dynamics to reduce transmission. In: *Ecology and Evolution for Control of Infectious Diseases in Low-Income Countries: Broadening the Scope for Public Health Management*, pp 236-251. Eds B. Roche, H Broutin and F Simard. Oxford University Press. DOI: [10.1093/oso/9780198789833.003.0015](https://doi.org/10.1093/oso/9780198789833.003.0015)

Published abstracts

22. **Lund AJ**, Sokolow SH, Jones IJ, Wood CL, Ali S, Chamberlin A, Sy AB, Sam MM, Jouanard N, Schacht AM, Senghor S, Fall A, Ndione R, Riveau G, De Leo GA, Lopez-Carr D. 2021. Exposure, hazard, and vulnerability all contribute to *Schistosoma haematobium* re-infection in northern Senegal *Lancet Planetary Health* 5(S10). DOI: [https://doi.org/10.1016/S2542-5196\(21\)00094-2](https://doi.org/10.1016/S2542-5196(21)00094-2)
23. De Leo GA, Sokolow SH, Garchitoerna A, Ngonghala CN, **Lund A**, Barry M, Burke KS, Mordecai EA, Daily GC, Jones JH, Andrews JR, Bendavid E, Luby SP, LaBeaud AD, Seetah K, Guegan J-F, Lafferty KD, Wood CL, Jones IJ, Bonds MH. 2017. A novel framework to account for ecological drivers in the

control and elimination of environmentally transmitted disease: A modelling study. *Lancet* 389(S5). DOI: [https://doi.org/10.1016/S0140-6736\(17\)31117-0](https://doi.org/10.1016/S0140-6736(17)31117-0)

24. Sokolow SH, Jones IJ, Jocque M, La D, Cords O, Knight A, **Lund A**, Wood CL, Lafferty KD, Hoover CM, Collender PA, Remais J, Lopez-Carr D, Fisk J, Kuris AM, De Leo GA. 2017. Water, dams, and prawns: Novel ecological solutions for the control and elimination of schistosomiasis. *Lancet* 389(S20). DOI: [https://doi.org/10.1016/S0140-6736\(17\)31132-7](https://doi.org/10.1016/S0140-6736(17)31132-7)

Published datasets

25. **Lund AJ**, Sokolow SH, Jones IJ, Wood CL, Ali S, Chamberlin A, Sy AB, Sam MM, Jouanard N, Schacht AM, Senghor S, Fall A, Ndione R, Riveau G, De Leo GA, Lopez-Carr D. Exposure, hazard, and vulnerability all contribute to *Schistosoma haematobium* re-infection in northern Senegal. Dryad, dataset, <https://doi.org/10.5061/dryad.s7h44j15p>
26. **Lund AJ**, Rehkopf DH, Sokolow SH, Sam MM, Jouanard N, Schacht AM, Senghor S, Fall A, Riveau G, De Leo GA, Lopez-Carr D 2021. Land use impacts on parasitic infection: a cross-sectional epidemiological study on the role of irrigated agriculture in schistosome infection in a dammed landscape in West Africa. Dryad, dataset, <https://doi.org/10.5061/dryad.sf7m0cg4m>
27. Wood CL, Sokolow SH, Jones IJ, Chamberlin AJ, Lafferty KD, Kuris AM, Jocque M, Hopkins SR, Adams G, Schneider M, Buck JC, **Lund AJ**, Garcia-Vedrenne AE, Fiorenza E, Rohr JR, Allan F, Webster BL, Rabone M, Webster JP, Bandagny L, Ndione R, Senghor S, Schacht AM, Jouanard N, Riveau G, De Leo GA. 2019. Precision mapping of snail habitats provides a powerful indicator of human schistosomiasis transmission. Dryad, dataset, <https://doi.org/10.5061/dryad.djh9w0vvt>

Under review/in revision

28. **Lund AJ**, Wade K, Nikolakis Z, Ivey K, Perry B, Pike H, Paull S, Castoe T, Pollock D, Carlton EJ. Integrating genomic and epidemiologic data to accelerate progress towards schistosomiasis elimination. [Resubmitted to *eLife*]. [Pre-print DOI: <https://doi.org/10.31219/osf.io/rt8wn>]
29. Sokolow SH, Jones IJ, Wood CL, Lafferty KD, Garchitorena A, Hopkins SR, **Lund AJ**, MacDonald AJ, Nova N, LeBoa C, Peel AJ, Mordecai EA, Chamberlin A, Howard M, Buck JC, Lopez-Carr D, Barry M, Bonds M, De Leo GA. More than one third of global human infectious disease burden is environmentally mediated, with disproportionate effects in rural poor areas. [In revision for *Lancet Planetary Health*]. [Pre-print DOI: <http://dx.doi.org/10.2139/ssrn.3457412>]
30. Haggerty C, Delius B, Jouanard N, Nado P, De Leo G, **Lund A**, Lopez-Carr D, Remais J, Riveau G, Sokolow S, Rohr J. Identifying low risk insecticides to address both food shortages and the biocontrol of human schistosomiasis. [Submitted]. [Pre-print DOI: <https://doi.org/10.1101/2021.01.05.425425>]

RESEARCH GRANTS

- 2017-2019 **Graduate Pursuits Program**, travel support for 18-month working group (Lead-PI)
National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD
- 2019 **Capacity Building and Public Engagement Grant**, \$7,000 in travel support (Co-PI)
King Center on Global Development, Stanford University

- 2019 **Global Health Seed Grant**, \$50,000 to conduct evaluation of NGO program (Co-I)
Center for Innovation in Global Health, Stanford University
- 2016-2018 **McGee & E-IPER Summer Research Grants**, \$14,000 for dissertation research (Lead-PI)
School of Earth, Energy & Environmental Sciences, Stanford University
- 2012 **Multidisciplinary Field Scholar Team Award**, \$12,000 for MPH thesis field work (Co-I)
Emory Global Health Institute, Emory University

AWARDS & FELLOWSHIPS

- 2021 **Summer Institute in Statistics and Modeling in Infectious Diseases Scholarship**
MIDAS Coordination Center, registration for short courses in genomic epidemiology
- 2017-2020 **James & Nancy Kelso Fellowship**
Stanford Interdisciplinary Graduate Fellowship (SIGF) program, Stanford University
- 2015-2017 **Davis Family E-IPER Fellowship**
School of Earth, Energy & Environmental Sciences, Stanford University
- 2011 **Scholar of the College**, University of Minnesota, Morris
- 2011 **John Q. Imholte Scholarship**, University of Minnesota, Morris
- 2009 **Study abroad scholarship**, Duke University/Organization for Tropical Studies
- 2008-2009 **Morris Academic Partner**, University of Minnesota, Morris
- 2007 **Academic All-Conference**, Women's Soccer, Upper Midwest Athletic Conference
- 2006-2010 **Presidential Scholarship**, University of Minnesota, Morris
- 2006-2010 **Chancellor's Scholarship**, University of Minnesota, Morris

WORKING GROUPS

- 2022-present Participant, **Engineering Working Group**
Global Schistosomiasis Alliance
- 2017-2019 Team Co-Lead, **Health and Resource Policy Working Group**
National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD
- 2017-2019 Participant, **Ecological Levers for Health Working Group**
National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA

PRESENTATIONS

Invited talks

1. "Agricultural livelihoods and exposure assessment for schistosomiasis", guest lecture, Environmental and Occupational Epidemiology, Colorado School of Public Health, February 2022
2. "Dams & disease: Moving from impact to mitigation" *Science @ Stanford*, Natural Capital Project, August 2021

3. “From UMN Morris to Africa: Human-environment dynamics in the eco-epidemiology of schistosomiasis.” *Latterell Alumni Lecture*, University of Minnesota, Morris Department of Biology, October 2020.
4. “Human-environment dynamics in the eco-epidemiology of schistosomiasis” *Sonoma State University Biology Colloquium*, September 2020.
5. “Dam parasites: How dams force people to choose between health and livelihoods” *Hard Earth Series*, *Roble Living Laboratory for Sustainability at Stanford*, April 2019

Contributed oral presentations

1. **Lund AJ**, SH Sokolow, IJ Jones, CL Wood, S Ali, A Chamberlin, AB Sy, MM Sam, N Jouanard, AM Schacht, S Senghor, A Fall, R Ndione, G Riveau, GA De Leo, D Lopez-Carr. “Exposure, hazard and vulnerability all contribute to *Schistosoma haematobium* re-infection in northern Senegal.” Lightning talk. *Planetary Health Alliance Annual Meeting*, April 2021.
 - Selected as one of the “Best Abstracts in Planetary Health” among submissions for the 2021 annual meeting and published in a special digital issue of *The Lancet Planetary Health*
2. **Lund AJ**, DH Rehkopf, SH Sokolow, N Jouanard, A Fall, G Riveau, JR Andrews, GA De Leo, D Lopez-Carr. “The role of irrigated agriculture in schistosomiasis risk in a dammed landscape in West Africa.” *Stanford Global Health Annual Research Convening*, January 2020.
3. **Lund AJ**, DH Rehkopf, SH Sokolow, N Jouanard, A Fall, G Riveau, JR Andrews, GA De Leo, D Lopez-Carr. “The role of irrigated agriculture in schistosomiasis risk in a dammed landscape in West Africa.” *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2019
4. Sokolow SH, IJ Jones, CL Wood, KD Lafferty, A Garchitorena, S Hopkins, M Boslough, L Marom, **A Lund**, AJ MacDonald, M Howard, N Nova, C Le Boa, A Peel, E Mordecai, A Chamberlin, M Barry, M Bonds & GA De Leo. “More than one third of global human infectious disease burden is environmentally mediated, with disproportionate effects in rural poor areas.” Co-authored oral presentation. *Planetary Health Alliance Annual Meeting*, September 2019.
5. Sokolow SH, SR Hopkins, N Nova, **A Lund**, IJ Jones, AJ MacDonald, L Kwong, ME Howard, GA De Leo & KD Lafferty. “Ecological levers for health: Bright spots and knowledge gaps revealed by a quantitative literature review” Co-authored oral presentation. *Ecological Society of America Annual Meeting*, August 2019.
6. Hopkins SR, C Wood, S Olson, J Buck, M Childs, GA De Leo, A Dobson, J Fornberg, A Garchitorena, M Howard, IJ Jones, A Kuris, L Kwong, C LeBoa, A Leon, **A Lund**, AJ MacDonald, D Metz, N Nova, AJ Peel, J Remais, S Sokolow, T Stewart, M Wilson, M Bonds, K Fiorella, L Mandle, H Tallis & KD Lafferty. “Case studies on the win-win menu: which interventions work to both reduce human infectious disease and conserve nature?” Co-authored oral presentation. *Ecological Society of America Annual Meeting*, August 2019.
7. Albrecht T, Andarge T, Harrington E, Hora T, **Lund A**, Wall R (authors listed alphabetically). “Management for Sustainable Development in the Senegal River Basin: Integrating historical and hydrological analysis of trade-offs between health and food, energy and water resources. Oral co-presenter. *American Association of Geographers Annual Meeting*, April 2019.

8. **Lund A**, Sow O, Ali S, Sokolow SH, Jouanard N, Riveau G, Senghor S, Lopez-Carr D, De Leo G. “Unavoidable risks: persistent water contact despite local knowledge of schistosomiasis risk in an endemic region of northern Senegal.” *American Association of Geographers Annual Meeting*, April 2019.
9. **Lund A**. “Local perceptions of seasonality and water contact behavior in the Sahel: implications for schistosomiasis transmission.” *Stanford Earth Annual Research Review*, April 2018.
10. **Lund A**, Forsyth J, Krystosik A, Sokolow S, Winter SJ, Banchoff A, King AC, De Leo G, LaBeaud D, Baiocchi M, Luby SP, Sarnquist C. “Violence and vectors: Engaging adolescent girls in participatory risk mapping in informal settlements in Fiji.” Lightning talk. *Natural Capital Symposium*, March 2018.
11. **Lund A**, McMillan JR, Kitron U, Kelly R, Mead DG, Burkot TR, Vazquez-Prokopec G. “Long-term impact of combined sewer overflows (CSO) remediation on water quality, mosquito abundance and West Nile virus amplification.” *Georgia Mosquito Control Association Annual Meeting*, October 2012.

Poster presentations

12. **Lund AJ**, KJ Wade, ZL Nikolakis, K Ivey, BW Perry, H Pike, SH Paull, Y Lui, TA Castoe, DD Pollock. Integrating genomic and epidemiologic data to accelerate progress towards schistosomiasis elimination. Accepted as a poster presentation. *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2022.
13. **Lund AJ**, E Grover, Y Liu, D Lu, EJ Carlton. Environmental contamination with *Schistosoma japonicum* eggs from agricultural practices and sanitation infrastructure in Sichuan, China. Accepted as a poster presentation. *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2022.
14. **Lund AJ**, E Harrington, TR Albrecht, T Hora, RE Wall, T Andarge. Schistosomiasis as a component of the food-energy-water nexus in dammed environments: A case study of the Senegal River Basin. Accepted as a poster presentation. *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2022.
15. **Lund AJ**, E Grover, Y Liu, EJ Carlton. Longitudinal analysis of occupational exposure to *Schistosoma japonicum* through irrigated agriculture in a site of reemergent and persistent transmission in Sichuan, China. *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2021.
16. **Lund AJ**, MM Sam, AB Sy, OW Sow, SH Sokolow, S Bereknyi Merrell, J Bruce, N Jouanard, S Senghor, G Riveau, GA De Leo, D Lopez-Carr. Behavioral responses to a seasonal environment reduce frequency but increase extent of water contact in schistosomiasis-endemic region of West Africa. *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2021.
17. **Lund AJ**, SH Sokolow, IJ Jones, AJ Chamberlin, CL Wood, AB Sy, MM Sam, N Jouanard, AM Schacht, S Senghor, A Fall, G Riveau, GA De Leo, D Lopez-Carr. “Integrating water contact behavior, environmental hazard and social vulnerability into estimates of schistosomiasis occurrence in northern Senegal.” *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2020.
18. Jones IJ, MacDonald AJ, Hopkins SR, **Lund AJ**, Yung-Chun Liu Z, Fawzi NI, Purba MP, Fankhauser K, Nirmala M, Blundell AG, Emerson A, Jennings J, Gaffikin L, Barry M, Lopez-Carr D, Webb K, De Leo GA, Sokolow SH. “Improving rural health care reduces illegal logging and conserves carbon in a tropical forest” *Stanford Global Health Annual Research Convening*, January 2020.

19. **Lund AJ**, DH Rehkopf, SH Sokolow, N Jouanard, A Fall, G Riveau, JR Andrews, GA De Leo, D Lopez-Carr. “The role of irrigated agriculture in schistosomiasis risk in a dammed landscape in West Africa.” *Planetary Health Alliance Annual Meeting*, September 2019.
20. Hopkins SR, C Wood, S Olson, J Buck, M Childs, GA De Leo, A Dobson, J Fornberg, A Garchitorena, M Howard, IJ Jones, A Kuris, L Kwong, C LeBoa, A Leon, **A Lund**, AJ MacDonald, D Metz, N Nova, AJ Peel, J Remais, S Sokolow, T Stewart, M Wilson, M Bonds, K Fiorella, L Mandle, H Tallis & KD Lafferty. “Interventions on the Planetary Health menu: examples, evidence and evaluation.” *Ecology and Evolution of Infectious Diseases Annual Meeting*, June 2019.
21. **Lund A**, Mandle L, Hamel P, LeBoa C, Sokolow S, De Leo G. “Predicting the impact of water management infrastructure on schistosomiasis transmission risk in sub-Saharan Africa.” *Natural Capital Symposium*, March 2018.
22. McMillan JR, Blakney R, **Lund A**, Mead D, Coker S, Bisanzio D, Koval W, Kitron U, Vazquez-Prokopec G. “Road-side catch basins as sentinels for West Nile Virus-infected Culex spp. mosquitoes.” *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2017.
23. **Lund A**, Lopez-Carr D, Riveau G, Jouanard N, Diop D, Andrews J, Sokolow SH, De Leo GA. “Gauging potential schistosomiasis exposure in northern Senegal from activity-specific water contact estimates.” *Planetary Health Alliance Inaugural Meeting*, April 2017.
24. **Lund A**, Lopez-Carr D, Riveau G, Jouanard N, Diop D, Andrews J, Sokolow SH, De Leo GA. “Gauging potential schistosomiasis exposure in northern Senegal from activity-specific water contact estimates.” *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2016.
25. **Lund A**, Bisanzio D, Masoumy L, Vazquez-Prokopec G. “Impact of Weather Variability on Water Quality and Mosquito Productivity in Catch Basins in Atlanta, GA.” *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2014.
26. **Lund A**, McMillan JR, Kitron U, Kelly R, Mead DG, Burkot TR, Vazquez-Prokopec G. “Long-term impact of combined sewer overflows (CSO) remediation on water quality, mosquito abundance and West Nile virus amplification.” *American Society of Tropical Medicine and Hygiene Annual Meeting*, November 2012.
27. **Lund A**, Deer M, Reimer R. “Effects of Machismo and Acculturation on HPV Vaccination and Willingness among White and Latina Women.” *Society for Personality and Social Psychology Annual Meeting*, January 2011.

TEACHING

Educational training

Pursuing Excellence in College Teaching

2021 – present

Center for Teaching and Learning, University of Colorado, Boulder

Teaching record

Public Health Teaching Faculty

January 2022

Citizen Science, Bard College

Guest Reviewer Practical Approaches in Global Health, Stanford University	Winter 2021
Invited alumna panelist on graduate school McNair Scholars Program, University of Minnesota, Morris	Summer 2019
Teaching Assistant Designing Environmental Research, Stanford University	Winter 2018
Graduate Teaching Assistant Introduction to Geographic Information Systems, Emory University	Fall 2012, Spring 2013
<u>Field work preparation and supervision</u>	
Invited panelist on Global Health Summer Opportunities Global Health Student Council, Stanford University	Fall 2019
Invited panelist on research methods Preparing for International Field Work, Department of History, Stanford University	Spring 2019
Field Mentor , Undergraduate Research Assistant Program King Center on Global Development, Stanford University	Summer 2018
Practicum Supervisor School of Public Health, Boston University	Summer 2018
Invited panelist for field research information session for undergraduates King Center on Global Development, Stanford University	Spring 2018
Field and Lab Manager Department of Environmental Sciences, Emory University, Atlanta, GA	2013 – 2015

PROFESSIONAL LEADERSHIP & SERVICE

Society memberships

American Society of Tropical Medicine and Hygiene	2015 – present
Planetary Health Alliance	2017 – present
Society for Epidemiologic Research	2019 – present
MIDAS Network	2021 – present

University service

EOH Book Club, Co-Organizer	2022
Stanford Program for Disease Ecology, Health, and the Environment	2016-2019
Stanford Global Health Student Council, Founding Member	2017-2018
Stanford E-IPER Student Committee	2017-2018
E-IPER Admissions FAQ contributor	2018
E-IPER Teleconference Needs Survey, organizer	2017
Emory Health Organization for Latin America	2012

Community service

Native Plant Garden Volunteer, Pie Ranch	2022
Future STEM Leaders speaker, Palo Alto High School	2019
Women Leaders in Global Health conference volunteer	2017
After-school tutor, Fugees Family, Inc.	2011-2015
Spin For Kids, charity bike ride for Fugees Family, Inc.	2013, 2014
Career Meets Curriculum speaker, Decatur High School	2014

Ad hoc reviewer, 2014 – present

PLoS Neglected Tropical Diseases (7 papers) • American Journal of Tropical Medicine and Hygiene (3 papers) • Infectious Diseases of Poverty (2 papers) • The American Naturalist (1 paper) • Environmental Research (1 paper) • Food and Waterborne Parasitology (1 paper) • Philosophical Transactions of the Royal Society of London B Biological Sciences (1 paper) • PLoS ONE (1 paper) • Transactions of the Royal Society of Tropical Medicine and Hygiene (1 paper)

ADDITIONAL TRAINING

2022	Communicating Your Science to the Public Colorado Clinical and Translational Sciences Institute, Anschutz Medical Campus
2021	Summer Institute in Statistics and Modeling of Infectious Diseases Department of Biostatistics, University of Washington <i>Reconstructing Transmission with Genomic Data Pathogen Evolution, Selection, and Immunity</i>
2021	Equity Certificate University of Colorado Denver, Anschutz Medical Campus
2019	Science-Policy Boot Camp, Rising Environmental Leaders Program Woods Institute for the Environment, Stanford University
2018	NVivo Software Training Workshop Stanford-Surgery Policy Improvement Research & Education Center, Stanford University
2018	Workshop on Writing for a Broader Audience Center for Ethics in Society, Stanford University & The Conversation US
2017	Presenting Data and Information One-day data visualization course taught by Edward Tufte, San Jose, CA
2017	Graduate Workshop on Socio-Environmental Synthesis National Center for Socio-Environmental Synthesis (SESYNC), Annapolis, MD
2016	Clinic on Dynamical Approaches to Infectious Disease Data International Clinics on Infectious Disease Dynamics and Data Program (ICI3D)
2014	Two-day course in Mosquito Identification University of Georgia, Griffin

OTHER SKILLS AND EXPERIENCE

Languages English (native speaker) • Spanish (advanced proficiency) • French (intermediate proficiency)

Software Statistical software (R, Stata, SAS, SUDAAN, SPSS) • Geographic information systems (ArcGIS, QGIS) • Data management (REDCap, EpiInfo) • Qualitative analysis software (Dedoose, NVivo) • Bibliographic software (Mendeley, Zotero, EndNote) • Collaboration software (GitHub, Slack, Google Suite) • Microsoft Office (Word, Excel, PowerPoint)

Field Survey design and data collection • Qualitative data collection • Mosquito trapping and identification (gravid, light, aspirator, larval dipping) • Bird trapping (mist netting) • Mammal trapping (Tomahawk) • Blood sampling (bird jugular, squirrel femoral)

International Senegal • Mali • Dominican Republic • Costa Rica