

Joseph Lewnard

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Education **Ph.D.**, Epidemiology of Microbial Diseases, **Yale University** 2018, *expected*
M.Phil., Epidemiology of Microbial Diseases, **Yale University** 2016, *expected*
B.A., Geography, Music (*First Class Hons., Dean's Hons.*), **McGill University** 2013

Publications

1. **Lewnard JA**, Antillón M, Gonsalves G, Miller AC, Ko AI, Pitzer VE. Strategies to prevent cholera introduction during international personnel deployments: a computational modeling analysis based on the 2010 Haiti outbreak. *PLoS Med.* 2016; **13**:e1001947. doi:10.1371/journal.pmed.1001947.
2. **Lewnard JA**, Givon-Lavi N, Huppert A, Pettigrew MM, Regev-Yochay G, Dagan R, Weinberger DM. Epidemiological markers for interactions among *Streptococcus pneumoniae*, *Haemophilus influenzae*, and *Staphylococcus aureus* in upper respiratory tract carriage. *J Infect Dis.* 2015. doi:10.1093/infdis/jiv761.
3. **Lewnard JA**, Jirmanus L, Nery Júnior N, Machado PR, Glesby MJ, Ko AI, Carvalho EM, Schriefer A, Weinberger DM. Forecasting temporal dynamics of cutaneous leishmaniasis in Northeast Brazil. *PLoS Negl Trop Dis.* 2014;**8**:e3283. doi:10.1371/journal.pntd.0003283.
4. **Lewnard JA***, Ndeffo-Mbah ML*, Alfaro-Murillo JA, Altice FL, Bawo L, Nyenswah TG, Galvani AP. Dynamics and control of Ebola virus transmission in Montserrado, Liberia: a mathematical modelling analysis. *Lancet Infect Dis.* 2014;**14**(12):1189-95. doi:10.1016/S1473-3099(14)70995-8.

* *joint first authors*

- Cover article, December 2014 issue
 - Accompanying editorial: Fisman D, Tuite AR. Ebola: no time to waste. *Lancet Infect Dis.* 2014;**14**(12):1164-5. doi:10.1016/S1473-3099(14)70851-5.
5. **Lewnard JA**, Berrang-Ford L, Lwasa S, Bambaiha Namanya D, Patterson KA, Donnelly B, Kulkarni MA, Harper SL, Ogden NH, Carcamo CP, IHACC Research Team 2013. Relative undernourishment and food insecurity associations with *Plasmodium falciparum* among Batwa pygmies in Uganda: evidence from a cross-sectional survey. *Am J Trop Med Hyg.* 2014;**91**(1):39–49.
 6. **Lewnard JA**, Berrang-Ford L. Internet-based partner selection and risk for unprotected anal intercourse in sexual encounters among men who have sex with men: a meta-analysis of observational studies. *Sex Transm Infect.* 2014;**90**:290–6.

Submitted

1. Thanh Hien PT, Apparicio P, **Lewnard JA**, Landry S. Streetscape versus socioeconomic context: Multi-level analysis of correlates of street cover in Montréal. *Submitted: under review.*

Commentaries

1. Rivers C, Alexander K, Bellan S, Del Valle S, Drake JM, Eisenberg JN, Eubank S, Ferrari M, Halloran ME, Galvani AP, Lewis BL, **Lewnard JA**, Lofgren E, Macal C, Marathe M, Ndeffo Mbah ML, Meyers LA, Meza R, Park A, Porco T, Scarpino SV, Shaman J, Vespignani A, Yang W. Ebola: models do more than forecast. *Nature.* 2014;**515**(7528):492. doi:10.1038/515492a.

Presentations	<ol style="list-style-type: none"> 1. Townsend JP, Lewnard JA. Climatic and evolutionary drivers of phase shifts in the plague epidemics of colonial India. National Academy of Sciences Sackler Colloquium in Coupled Human and Environmental Systems. Washington, DC, USA. March 2016. <i>Invited oral presentation.</i> 2. Lewnard JA, Regev-Yochay G, Huppert A, Weinberger DM. Epidemiological evidence for competition in <i>Streptococcus pneumoniae</i> and <i>Staphylococcus aureus</i>. Palestinian-Israeli Collaborative Research Meeting. Jerusalem, Israel. May 2015. <i>Oral presentation.</i> 3. Lewnard JA, Antillón M, Gonsalves G, Miller AM, Ko AI, Pitzer VE. Strategies to prevent cholera introduction in international deployments. Vaccines for Enteric Diseases. Edinburgh, Scotland, UK. July 2015. <i>Poster.</i> 4. Lewnard JA, Ndeffo-Mbah ML, Galvani AP. Dynamics and control of Ebola virus transmission in Montserrado, Liberia. Biomedical Advanced Research and Development Authority, Office of the Assistant Secretary for Preparedness and Response (US Department of Health & Human Services). Nov 2014. <i>Invited oral presentation.</i>
Peer review service	<p><i>Scientific Reports</i> <i>PLoS Neglected Tropical Diseases</i> <i>Sexually Transmitted Infections</i> <i>AIDS and Behavior</i> <i>PLoS ONE</i> <i>BMC Infectious Diseases</i> <i>International Journal of STD and AIDS</i></p>
Statistical consulting experience	<ol style="list-style-type: none"> 1. École des sciences de la gestion, Université du Québec à Montréal 2013–15 2. Centre Urbanisation, Culture, Société, Institut national de la recherche scientifique 2013
Honors and awards	<p>Undergraduate Award, Canadian Association of Geographers 2013 Second Prize, McGill Science Undergraduate Research Conference 2012</p>
Grants and scholarships	<p>Funded research Wilbur G. Downs Fellowship, Yale School of Medicine (\$7000) 2015 Science Undergraduate Research Award, McGill University (\$5600) 2012</p> <p>Academic Herbert C. Caley Award 2011 Grace Evelyn Tuttle Scholarship 2010 Schulich School of Music, McGill University</p> <p>James McGill Scholarship 2009 McGill University</p> <p>Extramural Full tuition and travel scholarship 2013 Summer Institute in Statistics and Modeling in Infectious Diseases Department of Biostatistics, University of Washington</p>

Teaching experience	Graduate teaching fellow (Yale)	
	Quantitative methods in infectious disease epidemiology Introductory Statistics (<i>Head TF</i>)	2014, 2015 2015
Field experience	Batwa pygmy villages <i>Coordinated parasitological survey</i> Kanungu District, Uganda	2013
Volunteer service	Yale University	
	Professional Ethics facilitator Graduate School of Arts and Sciences	2015–present
	Department Representative Graduate Student Assembly	2014–present
	Graduate student representative University Tribunal	2014–present
	McGill University	
	VP Personnel and Medical First Responder McGill Student Emergency Response Team	2011–2013
Skills	<i>Programming: R (preferred); Matlab; Mathematica; WinBUGS, JAGS; Stata</i> <i>Other: ArcGIS, QGIS, L^AT_EX</i> Languages: English (<i>native</i>); German (<i>fluent</i>); French (<i>proficient</i>)	