## Jeffrey P. Lienert

# Curriculum Vitae 9/19/2019

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#### **APPOINTMENTS**

University of Pennsylvania & Philadelphia VA Medical Center Advanced Fellow in Health Services Research Philadelphia, PA 2018- 2021

#### **EDUCATION**

University of Oxford & National Institutes of Health *Ph.D. Social Epidemiology* 

Oxford, UK & Bethesda, MD November 2018

Harvard School of Public Health *M.S. Epidemiology* 

Boston, MA May 2014

Franklin & Marshall College B.A. Biochemistry (minor: Applied Mathematics)

Lancaster, PA May 2012

#### **PUBLICATIONS**

## **Journal Articles**

Haenssgen M, Charoenboon N, Zanello G, Mayxay M, Reed-Tsochas F, Lubell Y, Wertheim H, Lienert J, Xayavong T, Khine Zaw Y, Theplhamkong A, Sithongdeng N, Khamsoukthavong N, Phanthavong C, Boualaiseng S, Vongsavang S, Wibunjak K, Chai-In P, Thavethanutthanawin P, Althaus T, Greer RC, Nedsuwan S, Wangrangsimakul T, Limmathurotsakul D, Elliott E, and Ariana P. 2019. Antibiotic Knowledge, Attitudes, and Practices: New Insights from Cross-Sectional Rural Health Behaviour Surveys in Lowand Middle-Income Southeast Asia. *BMJ Open*.

- **Lienert J**, Koehly L, Reed-Tsochas F, and Marcum CS. 2019. An efficient counting method for the colored triad census. *Social Networks* 58:136-42.
- Smith Fawzi MC, Siril H, Liu Y, McAdam K, Ainebyona D, McAdam E, Somba M, Oljemark J, Mleli N, **Lienert J**, Andrew I, Haberlen S, Simwinga A, Todd J, Makongwa S, Li N, and Kaaya S. 2019. Agents of change among people living with HIV and their social networks: stepped-wedge randomised controlled trial of the *NAMWEZA* intervention in Dar es Salaam, Tanzania. *BMJ Global Health*. 4:e000946.
- Haenssgen M, Charoenboon N, Mayxay M, Reed-Tsochas F, Jones C, Kosaikanont R, Praphattong P, Lubell Y, Newton P, Keomany S, Wertheim H, **Lienert J**, Xayavong T,

- Khine Zaw Y, Greer R, Althaus T, Nedsuwan S, Intralawan D, Wangrangsimakul T, Cheah PY, Limmathurotsakul D, and Ariana P. 2018. Research protocol: antibiotics and activity spaces: An exploratory study of behaviour, marginalisation, and knowledge diffusion. *BMJ Global Health*. 3(2):e00621.
- **Lienert J**, Marcum CS, Finney J, Reed-Tsochas F, and Koehly L. 2017. Social influence on 5-year survival in chemotherapy co-presence network. *Network Science* 5(3), 308-327.
- **Lienert J**, Tarko L, Uchino M, Christen WG, Li JZ, and Schaumberg DA. 2016. Long-term natural history of dry eye disease from the patient's perspective. *Ophthalmology* 123:425-33.
- Chai J, Fink G, Kaaya S, Danaei G, Fawzi W, Ezzati M, Lienert J, Fawzi MC. 2016. Association between intimate partner violence and poor child growth: results from 42 demographic and health surveys. *Bulletin of the World Health Organization*. 94(5):331.
- Kaaya S, Garcia ME, Li N, **Lienert J**, Twayigize W, Spiegelman D, Smith Fawzi MC. 2016. Association of maternal depression and infant nutritional status among women living with HIV in Tanzania. *Maternal & child nutrition*. 12(3):603-13.
- Blackburn, J, Cleveland, J, Griffin, R, Davis, G, Lienert, J, McGwin, G Jr. 2012. Tattoo frequency and types among homicides and other deaths, 2007-2008: a matched case-control study. *Am J Forensic Med Pathol* 33:202-5.
- **Lienert J,** Griffin R, Blackburn J, McGwin G Jr. 2012. The epidemiology of lawn trimmer injuries in the United States, 2000-2009. *J Safety Res* 43:137-9.
- McGwin G Jr, **Lienert J**, Kennedy JI Jr. 2010. Formaldehyde exposure and asthma in children: a systematic review. *Environ Health Perspect* 118:313-317.

## **Manuscripts in Submission**

- **Lienert J,** Reed-Tsochas F, Koehly L, and Marcum CS. Using hospital administrative data to infer patient-patient contact via the consistent co-presence algorithm. Submitted to *IEEE Big Data 2019*.
- **Lienert J** and Patel M. Patient phenotypes help explain variation in response to a social gamification weight loss intervention. Submitted to *AJHP*.
- **Lienert J,** Smith-Fawzi MK, McAdam K, Kaaya S, Todd J, Andrews A, and Onnela JP. Network spillover effects and follow-up correlates in a behavioral HIV intervention in Tanzania. Submitted to *BMJ Open*.
- Kaaya S, Siril H, McAdam K, Ainebyona A, Somba M, McAdam E, Oljemark K, Todd J, Andrew I, Semwinga A, Mleli N, Makongwa S, Liu Y, **Lienert J**, Haberlen S, and Fawzi MKS. Agents of Change: comparing HIV-related risk behavior of people attending ART

clinics in Dar es Salaam with members of their social networks. Submitted to *PLOS ONE*.

## **Manuscripts in Preparation**

- Shreves A, Lienert J, Marcum CS, Griffin M, and Koehly L. Clinical Trajectories of Patients with Screened Genetic Disorders.
- Haenssgen M, Charoenboon N, Zanello G, Mayxay M, Reed-Tsochas F, Jones C, Kosaikanont R, Praphattong P, Lubell Y, Newton P, Keomany S, Wertheim H, Lienert J, Xayavong T, Warapikuptanun P, Khine Zaw Y, Thepkhamkong A, Sithongdeng N, Keovilayvanh M, Khamsoukthavong N, Phanthasimchit P, Phanthavong C, Boualaiseng S, Vongsavong S, Sangkham N, Wibunjak K, Chai-in P, Chailert S, Thavethanutthanawin P, U-thong P, Benjaroon P, Promsutt K, Althaus T, Greer R, Nedsuwan S, Intralawan D, Wangrangsimakul T, Limmathurotsakul D, Elliot E, and Ariana P. Antibiotic Knowledge, Attitudes, and Practices: New Insights from Representative Social Surveys in Low- and Middle-Income Southeast Asia.
- **Lienert J**, Reed-Tsochas F, Marcum CS, and Koehly L. Ward co-presence time as a diagnostic indicator for nosocomial infection.
- **Lienert J**, Koehly L, Finney J, Marcum CS, Reed-Tsochas F. Detection of patients with subclinical infection via electronic medical records.
- Marcum CS, **Lienert J**, Goldring M, Lin J, Miggins A, Moss M, Song S, Thakur H, and Koehly LM. A nationally representative sample of ego-centered cognitive social structures of close personal networks.

### **AWARDS AND HONORS**

- 2018 Best Dissertation in Progress Award, Mathematical Sociology Section, American Sociological Association
- 2017 National Human Genome Research Institute Intramural Research Award
- 2017 3<sup>rd</sup> Year Graduate Research Prize, Nuffield Department of Medicine
- 2017 1<sup>st</sup> Place Poster Award, Society for Epidemiologic Research Conference
- 2017 Best Student Paper Award, International Network of Social Network Analysis
- 2017 NIH Postbaccalaureate Mentor Award, National Institutes of Health
- 2014 Meaningful Modelling of Epidemiological Data Scholar, African Institute for the Mathematical Sciences

- 2013 Epidemiology Departmental Scholarship, Harvard School of Public Health
- 2012 Phi Beta Kappa Honor Society, Franklin & Marshall College

#### GRANTS AND FELLOWSHIPS

- 2017 NIH Summer Research Mentor Award, National Institutes of Health (\$11,000)
- 2016 Fellows Award for Research Excellence, National Institutes of Health (\$1,000)
- 2014 NIH Oxford Cambridge Scholars Fellowship, National Institutes of Health (\$250,000)

#### INVITED TALKS

2019, Careers in Mathematics Conference and Section NExT Symposium, Kutztown University Panel on Careers in Mathematics

2019, Social Networks & Health Workshop, Duke University "Constructing networks from Electronic Medical Records"

2019, SAGE Research Methods Videos, SAGE Publishing "Studying the impact of patient co-presence in hospitals on administrative data" <a href="https://dx.doi.org/10.4135/9781526498984">https://dx.doi.org/10.4135/9781526498984</a>

2019, Duke Network Analysis Center, Duke University.

"Using co-presence networks from hospital administrative data to predict infection and identify subclinical infection"

2018. Joint Math Colloquium, Franklin & Marshall College.

"The health effects of patient-patient co-presence in a chemotherapy ward using hospital administrative data and electronic medical records"

#### **PRESENTATIONS**

- **Lienert J,** Patel M. Patient phenotypes help explain variation in response to a social gamification weight loss intervention. University of Pennsylvania and Carnegie Mellon University Roybal Conference, Hershey, PA.
- Changolkar S, **Lienert J**, Rareshide C, Snider CK, and Patel M. 2019. Using EHR Data to Identify Clinician Phenotypes with Differential Responses to a Nudge for Influenza Vaccination. Society of General Internal Medicine, Pittsburgh, PA.
- **Lienert J**, Reed-Tsochas F, Marcum CS, and Koehly L. 2019. Ward co-presence time as a diagnostic indicator for nosocomial infection. Academy Health, Washington, DC & Sunbelt, Montreal, CA.

- **Lienert J.** 2018. Analyzing healthcare sequences in social networks. ESRC Research Methods Festival, Bath, UK.
- **Lienert J**, Koehly L, Finney J, Marcum CS, Reed-Tsochas F. 2018. Detection of subclinical infection and structure of co-presence networks help explain hospital-acquired infection. NetSci 2018, Paris, France & Sunbelt 2018, Utrecht, Netherlands.
- Cleary J, Lienert J, Ashida S, Marcum CS, and Koehly L. 2017. Factors Influencing emotional support provision to caregivers of individuals affected by Alzheimer's disease. NHGRI Research Symposium, Bethesda, MD.
- Shreves A, Marcum CS, Finney J, Koehly L, and **Lienert J.** 2017. Clinical trajectories of patients with and without screened genetic disorders in the UK. NIH Summer Student Poster Day, Bethesda, MD.
- **Lienert J**, Koehly L, Finney J, Marcum CS, Reed-Tsochas F. 2017. An efficient counting method for the colored triad census. North American Social Networks Conference (NASN), Washington, DC.
- Cleary J, Thakur H, Eni P, **Lienert J**, Lea D, Marcum CS, and Koehly LM. 2017. Using a network approach to explore coping resources needed by families affected by inborn errors of metabolism. NASN, Washington, DC.
- Thakur H, **Lienert J**, Marcum CS, Prokhorov A, Wilkinson A, and Koehly L. 2017. Measuring relationalized *Respeto* and understanding its impact on smoking behavior among mexican heritage adults residing in the united states. NASN, Washington, DC.
- **Lienert J**, Reed-Tsochas F, Finney J, Koehly L, and Marcum CS. 2017. Potential detection of patients with undiagnosed nosocomial MRSA via administrative data. Society for Healthcare Epidemiology of America Conference 2017, St Louis, MO; Society for Epidemiologic Research Conference, Seattle, WA; and NIH OxCam Workshop 2018, Cambridge, UK.
- **Lienert J,** Marcum CS, Finney J, Reed-Tsochas F, and Koehly L. 2016. Social influence on 5-year survival in a chemotherapy co-presence network. Sunbelt XXXVI, Newport Beach, CA.
- **Lienert J,** Marcum CS, Finney J, Reed-Tsochas F, and Koehly L. 2015. Ward transfer networks in hospitals. Sunbelt XXXV. Brighton, UK.
- Lienert J, Fawzi M, Kaaya S, Haberlen S, Siril H, Li N, McAdam K, Ainebyona D, Sombal M, McAdam E, Oljemark K, Todd J, Andrew I, Simwinga A, Mleli N, Makongwa S, Arthur G, Liu Y, Onnela JP. 2014. Participants in the Agents of Change study influence follow-up and health outcomes of members of their social network. International Aids Society Conference, Melbourne, Australia.

#### RESEARCH POSITIONS

2017-2018 Research Officer with Dr. Marco Haenssgen, PhD

Department of Tropical Medicine, University of Oxford, Oxford, UK Serving as an expert in social network analysis on a study of antibiotic usage in Laos and Thailand. Involved in drafting the now-funded grant proposal, devising the social network portion of the questionnaire, and eventually analyzing the

results.

2012-2014 Research Assistant with Mary Kay Smith-Fawzi, ScD

Department of Global Health and Social Medicine, Harvard Medical School,

Boston, MA

Coordinated an international research team in leading an HIV behavioral

intervention in Tanzania, as well as data cleaning and analysis.

2007-2011 Research Assistant to Gerald McGwin, PhD

Department of Epidemiology, University of Alabama at Birmingham,

Birmingham, AL

In addition to conducting independent research, I managed the Crash Injury Reporting and Engineering network (CIREN) study and assisted doctoral students with data management and abstraction from medical records and autopsy reports.

#### TEACHING EXPERIENCE

Introduction to Statistics, National Institutes of Health, Summer 2017

Introduction to Social Network Analysis, University of Oxford, Spring 2016 & 2018.

Introduction to Epidemiology and Biostatistics in Global Health, Harvard School of Public Health, Winter 2014.

SAT Preparatory Class, Kaplan Inc., 2012-2014.

## STUDENT ADVISING

Alaina Shreves, College of William & Mary

Thesis: "Clinical Trajectories of Genetic Disorders: Sickle Cell Disease"

**Highest Honors** 

## PROFESSIONAL SERVICE

2019- Manuscript reviewer

Connections

2018- Manuscript reviewer

Network Science

2018	Committee member for Best Student Paper Award INSNA, Utrecht, Netherlands
2017-	Abstract judge American Public Health Association Annual Meeting
2017	Abstract judge for the Society for Epidemiologic Research (SER) 2018 Conference SER, Baltimore, MD
2017	Abstract judge for the Fellows Award in Research Excellence (FARE) NIH, Bethesda, MD
2017	Poster judge for the NIH Postbaccalaureate Poster Day NIH, Bethesda, MD
2017-2018	Created and maintained algorithm to automatically redact transcripts for anonymized analysis Social Network Methods Section, NHGRI, NIH, Bethesda, MD
2016-2018	Managed the lab wiki, including archiving posts and onboarding new lab members Social Network Methods Section, NHGRI, NIH, Bethesda, MD
2015-	Manuscript reviewer  Journal of Epidemiology and Community Health

## RELATED PROFESSIONAL SKILLS

Programming Languages: R, SAS, Python

Technical Skills: GIS, survey design, database management, Linux, computational clusters, network analysis, statistics

## PROFESSIONAL AFFILIATIONS

Academy Health
Society for Healthcare Epidemiology of America
American Sociological Association
International Network of Social Network Analysis
American Public Health Association
American Statistical Association
Society for Epidemiologic Research