

Jason R. Gantenberg

Curriculum Vitae



jrgant@brown.edu

<https://github.com/jrgant>

<https://www.linkedin.com/in/jrgant>

DOCTORAL RESEARCH

“Understanding the Transmission of Gonorrhea among Men Who Have Sex with Men Using Agent-based Modeling”

My dissertation research focused on using agent-based models to estimate latent epidemiologic parameters relating to gonorrhea transmission among men who have sex with men. The models address the lack of empirical data on key features of gonorrhea, including natural history, incidence, the relative importance of infection at different anatomic sites, and the role of implied transmission pathways.

ACADEMIC APPOINTMENTS

NOV 2022 – PRESENT

Brown University

Assistant Professor of the Practice

Secondary appointment in the Department of Epidemiology, School of Public Health. Co-taught *Intermediate Methods in Epidemiologic Research* in Spring 2023 as secondary instructor.

AUG 2022 – DEC 2022 (PT)

Loyola University Chicago

Adjunct Assistant Professor

Co-instructor for *Introduction to Epidemiology*.

WORK EXPERIENCE

SEP 2022 – PRESENT

Brown University

Research Scientist

I work in the Department of Health Services, Policy & Practice (Center for Evidence Synthesis in Health) at the Brown University School of Public Health. My research and interests include epidemiologic methods, computational modeling of infectious disease transmission, and applied machine learning.

JULY 2022 – DEC 2022 (PER PROJECT)

Emory University

External Consultant

I design and program modules related to bacterial STI transmission and sexual behavior for EpiModelHIV, an agent-based network model of HIV/STI transmission. Project: EpiModel 2.0 (PI: Samuel M. Jenness).

DEC 2021 – AUG 2022

EDUCATION

2016 – 2022 **Ph.D., Epidemiology**
Department of Epidemiology
Brown University

2013 – 2015 **M.P.H., Epidemiology**
Dept. of Public Health Sciences
Loyola University Chicago

2010 – 2012 **M.A., Writing & Publishing**
GRADUATED WITH DISTINCTION
Department of English
DePaul University

2002 – 2005 **B.A., English**
Department of English
University of Iowa

PUBLICATIONS

Yorlets RR, Lee Y, **Gantenberg JR.** (2023) Calculating risk and prevalence ratios and differences in R: Developing intuition with a hands-on tutorial and code. *Annals of Epidemiology* doi:10.1016/j.annepidem.2023.08.001

Gantenberg, J.R., McConeghy, K.W., Howe, C.J., Steingrimsson, J., van Aalst, R., Chit, A., Zullo, A.R. (2023). Predicting seasonal influenza hospitalization using an ensemble super learner: a simulation study. *American Journal of Epidemiology*. doi:10.1093/aje/kwad113

Gantenberg, J.R., van Aalst, R., Zimmerman, N., Limone, B., Chaves, S.S., La Via, W.V., Nelson, C.B., Rizzo, C., Savitz, D.A., Zullo, A.R. (2022). Medically attended illness due to respiratory syncytial virus (RSV) infection among infants born in the United States between 2016 and 2020. *The Journal of Infectious Diseases*, 2022;(Supplement 2):S164–74. doi:10.1093/infdis/jiac185.

Zullo, A.R. (co-first), Adams, J.W. (co-first), **Gantenberg, J.R.**, Marshall, B.D.L., Howe, C.J. (2019). Examining neighborhood poverty-based disparities in HIV/STI prevalence: an analysis of Add Health data. *Annals of Epidemiology*, 39:8–14, doi:10.1016/j.annepidem.2019.09.010.

Gantenberg, J.R., King, M., Montgomery, M.C., Galárraga, O., Proserpi, M., Chan, P.A., Marshall, B.D.L. (2018). Improving the impact of HIV pre-exposure prophylaxis implementation in small urban centers among men who have sex with men: an agent-based modelling study. *PLoS ONE*, 0199915, doi:10.1371/journal.pone.0199915. Correction: 10.1016/j.annepidem.2019.09.010

Brown University
Postdoctoral Research Associate

I worked in the Department of Health Services, Policy & Practice and Center for Gerontology at the Brown University School of Public Health. My research and interests include respiratory syncytial virus, epidemiologic methods, applied machine learning, and computational modeling of infectious disease.

AUG 2016 – MAY 2021

Brown University
Graduate Research Assistant

Worked on a number of projects related to infectious disease transmission, agent-based modeling, machine learning, causal inference, and disparities in HIV/STI outcomes. 20 hrs/wk.

AUG 2017 – DEC 2018

Brown University
Graduate Teaching Assistant

Introduction to Epidemiologic Methods

Served as head TA, graded assignments and exams, held office hours, and lectured. 20 hrs/wk.

Applied Epidemiologic Analysis using SAS

Graded assignments and lectured. 5 hrs/wk.

Current Topics in Environmental Health

Graded assignments and exams. 10 hrs/wk.

Advanced Quantitative Methods in Epidemiology

Graded assignments and held office hours. 5 hrs/wk.

NOV 2014 – APR 2015

Chicago Department of Public Health
Public Health Volunteer

As the practicum requirement for my MPH degree, I conducted a descriptive study on extragenital gonorrhea among women reporting to Chicago Department of Public Health STD clinics.

AUG 2014 – DEC 2014

Loyola University Chicago
Teaching Assistant

Introduction to Epidemiology

Recorded lectures, graded assignments, and provided feedback to students.

JAN 2013 – AUG 2016

American Journal of Neuroradiology
Electronic Publications Manager

Designed and edited online medical case quizzes collated by expert section editors. Edited and oversaw the *AJNR* Blog and *AJNR News Digest*.

JUN 2005 – DEC 2012

American Journal of Neuroradiology
Editorial & Web Assistant

Handled day-to-day peer review workflow (approx. 1,300 manuscript submissions per year). Created production-quality materials for journal publication, advertising,

UNDER REVIEW / IN PROGRESS

Thompson K.D., **Gantenberg J.R.**, et al. Inpatient Service Utilization Amongst Infants Diagnosed with Respiratory Syncytial Virus Infection in the United States.

Gantenberg J.R. et al. Risk Analysis of Respiratory Syncytial Virus Among Infants in the United States by Birth Month.

Gantenberg J.R. et al. Healthcare Utilization During Acute Medically Attended Respiratory Syncytial Virus Episodes Among Infants in the United States.

CONFERENCE PRESENTATIONS

Gantenberg, J.R., van Aalst, R., Diakun, D.R., Limone, B.L., Nelson, C.B., Savitz, D.A., Zullo, A.R. Healthcare Utilization During Acute Medically Attended Respiratory Syncytial Virus (RSV) Episodes among Infants in the United States. *IDWeek 2022*, October 19–23, 2022. Poster.

Gantenberg, J.R., Zimmerman, N.M., Zullo, A.R., Limone, B., Demont, C., Chaves, S.S., La Via, W.V., Nelson, C., Rizzo, C., Savitz, D., van Aalst, R. (2021). Medically Attended (MA) Illness Due to Respiratory Syncytial Virus (RSV) Infection among Infants in the United States during the 2016–17, 2017–18, 2018–19, and 2019–20 RSV Seasons: The Need for All-Infant Protection. *IDWeek 2021*, September 29 – October 3, 2021. Poster.

Gantenberg, J.R., McConeghy, K.W., Howe, C.J., Steingrimsdottir, J., van Aalst, R., Chit, A., Zullo, A.R. (2021). Assessing the super learner as a tool for predicting seasonal influenza hospitalizations: a simulation study. *Society for Epidemiologic Research Annual Meeting*, June 22–25, 2021. Poster.

Gantenberg, J.R., King, M., Montgomery, M.C., Galárraga, O., Prospero, M., Chan, P.A., Marshall, B.D.L. Improving statewide pre-exposure prophylaxis implementation among men who have sex with men. *Conference on Retroviruses and Opportunistic Infections*, March 4–7, 2018, Boston, MA. Poster.

Gantenberg, J.R., Marshall, B.D.L., King, M., Galárraga, O., Prospero, M., Tributino, A., Montgomery, M., Chan, P.A. The impact of a real-world pre-exposure prophylaxis program on HIV transmission among men who have sex with men: an agent-based modeling study. *International AIDS Society Conference on HIV Science*, July 23–26, 2017, Paris, France. Poster.

Kliethermes, S. (co-first), **Gantenberg, J.R.** (co-first), Mora, N., Phillips, R.O., Opare-Sem, O., Owusu, D., Layden, J.E. (2016). Age- and region-specific prevalence of hepatitis C virus in Ghana: a population-based study. *The 67th Annual Meeting of the American Association for the Study of Liver Diseases: The Liver Meeting 2016*, November 11–16, 2016, Boston, MA. Abstract.

Gantenberg, J.R., Mikati, T., Tabidze, I. Extragenital screening for chlamydia and gonorrhea increases prevalence of infection in women reporting to Chicago Department of Public Health STD clinics. *American Public Health*

social media, and promotional materials. Collated journal submission and publication statistics for Editor and Editorial Board meetings.

SERVICE

- 2022 **Abstract Reviewer**
Society for Epidemiologic Research
Annual Meeting
- 2019 – 2022 **Communications Committee**
Society for Epidemiologic Research
- SPRING 2021 **Student Advisory Committee**
Department of Epidemiology
Brown University
- 2019 – 2021 **Graduate Library Advising Committee**
Brown University Libraries
- 2014 - 2015 **MPH Student Assembly**
Communications Officer
Loyola University Chicago
- 2013 **Strategic Planning Committee**
Student Representative, Epidemiology
Loyola University Chicago

SOCIETY MEMBERSHIP

- 2021 – PRESENT Society for Causal Inference
- 2017 – PRESENT Society for Epidemiologic Research
- 2015 – PRESENT American Sexually Transmitted Disease Association
- 2017 – 2019 International AIDS Society
- 2014 – 2015 American Public Health Association

PEER REVIEW

PLoS ONE, Sexually Transmitted Diseases, Addiction

OTHER EDUCATION

- JUN. 2022 **Target Trial Emulation**
WORKSHOP
*Harvard University School of Public Health
Boston, MA
June 27 – July 1, 2022*
- JUN. 2022 **Targeted Learning I and II**
PRE-CONFERENCE WORKSHOPS
Targeted Learning I: Causal Inference
Meets Machine Learning
Targeted Learning II: Advanced Applications of Causal Inference
*Society for Epidemiologic Research
2022 Annual Meeting
Chicago, IL
June 14, 2022*
- 2018 – 2019 **Reflective Teaching (Seminar)**
CERTIFICATE
The Harriet W. Sheridan Center for

*Association Annual Meeting, November 4, 2015, Chicago, IL.
Oral.*

AWARDS

- 2017 **Spring Student Abstract Award**
Second Prize, Dept. of Epidemiology
Brown University

COMPUTING

- FAMILIAR Python, Javascript, Stata, WinBUGS,
SQL, MySQL, PHP, Stan, elisp
- PROFICIENT \LaTeX , HTML, CSS, Shiny, Bash,
SLURM, Git, SAS, NetLogo
- FLUENT R, R/Markdown
- OFFICE Windows, Linux, Microsoft Office,
Adobe Photoshop

TALKS & LECTURES

NIAID Fellowship Workshop: Resources for Successful Transition into Research Independence. (May 3–4, 2022).
Panelist: Importance of Mentorship in Your Careers.

Open Access and Scientific Publishing for Public Health Researchers. (2019). Brown University Open Access Week. Organizer. *Co-organizers:* Andrew Creamer, Erin Athony

Random Error and Validity. (2016–2022). Guest lecturer in Introduction to Epidemiologic Methods at Brown University.

Teaching and Learning
Brown University
Providence, RI

AUG. 2018 **Network Modeling for Epidemics**

WORKSHOP

University of Washington
Seattle, WA

August 20 – August 24, 2018

SPRING 2016 **Introduction to Genetics**

COURSE

College of DuPage
Glen Ellyn, IL