Samuel M. Jenness, PhD

CURRICULUM VITAE

Department of Epidemiology
Rollins School of Public Health
Emory University
1520 Clifton Road (CNR 2045)
Atlanta, GA 30322

Tel 917.414.6566
samuel.m.jenness@emory.edu
http://samueljenness.org/

EDUCATION

2015  PhD  Epidemiology
School of Public Health, University of Washington

2005  MPH  Health Law & Bioethics
School of Public Health, Boston University

2002  BA  Philosophy
College of Arts & Sciences, Boston University

ACADEMIC POSITIONS

2021–present  Associate Professor (with tenure)

2016–2021  Assistant Professor
Department of Epidemiology, Emory University

2020–present  Full Member
Population Biology, Ecology, and Evolution Program, Emory University

2015–2016  Postdoctoral Research Associate
Center for Studies in Demography and Ecology, University of Washington

OTHER RESEARCH POSITIONS

2006–2011  Research Scientist
HIV Epidemiology Program, New York City Department of Health & Mental Hygiene

2002–2006  Research Analyst
HIV/AIDS Bureau, Massachusetts Department of Public Health
92. Mann LM, Sanchez T, Stephenson R, Sullivan PS, Jenness SM. The Impact of the COVID-19 Pandemic on Sexual Behavior and HIV Prevention and Treatment Services among U.S. Men Who Have Sex with Men in the Post-Lockdown Era. American Journal of Men's Health. 2023; 17(2): 15579883231168602.

91. Hamilton DT, Hoover KW, Smith DK, Delaney KP, Wang LY, Li J, Hoyle T, Jenness SM, Goodreau SM. Achieving the “Ending the HIV Epidemic in the U.S.” Incidence Reduction Goals among At-Risk Populations in the South. BMC Public Health. 2023; 23(1): 716.

90. Jones J, Jenness SM, Le Guillou A, Sullivan PS, Gift TL, Delaney KP, Chesson H. Estimated Number of Incident HIV Infections in Men Who Have Sex with Men Attributable to Gonorrhea and Chlamydia, per Gonococcal or Chlamydial Infection, in the United States. Sexually Transmitted Diseases. 2023; 50(2): 83–85.

89. Aguolu OG, Willebrand K, Elharake JA, Qureshi HM, Kiti MC, Liu CY, Mesa AR, Nelson K, Jenness SM, Melegaro A, Ahmed F, Yildirim I, Malik FA, Lopman B, Omer SA. Factors Influence the Decision to Receive Seasonal Influenza Vaccination among US Corporate Non-Healthcare Workers. Human Vaccines & Immunotherapeutics. 2022; 18(6): e2122379.

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87. Chandra C, Morris M, Van Meter C, Goodreau SM, Sanchez T, Janulis P, Birkett M, Jenness SM. Comparing Sexual Network Mean Active Degree Measurement Metrics among Men Who Have Sex with Men. Sexually Transmitted Diseases. 2022; 49(12): 808–814.

86. Mann LM, Le Guillou A, Goodreau SM, Marcus JL, Sanchez T, Weiss KM, Jenness SM. Correlations Between Community-Level HIV Preexposure Prophylaxis Coverage and Individual-Level Sexual Behaviors among US Men Who Have Sex with Men. AIDS. 2022; 36(14): 2015–2023.

85. Maloney KM, Benkeser D, Sullivan PS, Kelley C, Sanchez T, Jenness SM. Sexual Mixing by Diagnosed HIV Status and Pre-Exposure Prophylaxis Use among Men Who Have Sex with Men: Stochastic Reclassification to Address Information Bias in Egocentric Network Data. Epidemiology. 2022; 33(6): 808–16.

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83. Wheatley MM, Knowlton G, Kao SY, Jenness SM, Enns E. Cost-Effectiveness of Interventions to Improve HIV Pre-Exposure Prophylaxis Initiation, Adherence, and Persistence among Men Who Have Sex with Men. Journal of Acquired Immune Deficiency Syndrome. 2022; 90(1): 40–49.

82. Willebrand KS, Pischel L, Malik AA, Jenness SM, Omer SB. A Review of COVID-19 Transmission Dynamics and Clinical Outcomes on Cruise Ships Worldwide, January to October 2020. Eurosurveillance. 2022; 27(1): 2002113.
81. Goodreau SM, Maloney KM, Sanchez TH, Morris M, Janulis P, Jenness SM. A Behavioral Cascade of HIV Seroadaptation among US Men Who Have Sex with Men in the Era of PrEP and U=U. *AIDS & Behavior*. 2021; 25(12): 3933–43.

80. Le Guillou A, Buchbinder S, Scott H, Liu A, Havlir D, Scheer S, Jenness SM. Population Impact and Efficiency of Improvements to HIV PrEP Under Conditions of High ART Coverage among San Francisco Men Who Have Sex with Men. *Journal of Acquired Immune Deficiency Syndrome*. 2021; 88(4): 340–347.

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Maloney KM, Le Guillou A, Driggers R, Sarkar S, Anderson EA, Malik AA, Jenness SM. Projected Impact of Concurrently Available Long-Acting Injectable and Daily-Oral HIV Pre-Exposure Prophylaxis. *Journal of Infectious Diseases*. 2021; 223(1): 72–82.

Westreich D, Jenness SM, Marcus JL. To Contact Tracing... and Beyond! *Clinical Infectious Diseases*. 2021; 72(4): 724–5.

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54. Chapin-Bardales J, Rosenberg ES, Sullivan PS, Jenness SM, Paz-Bailey G. Trends in Number and Composition of Sex Partners among Men Who Have Sex with Men in the United States, National HIV Behavioral Surveillance, 2008–2014. *Journal of Acquired Immune Deficiency Syndrome*. 2019; 81(3): 257–265.

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51. Jones J, Weiss K, Mermin J, Dietz P, Rosenberg ES, Gift T, Chesson H, Sullivan PS, Lyles C, Bernstein K, Jenness SM. Proportion of Incident HIV Cases among Men Who Have Sex with Men Attributable to Gonorrhea and Chlamydia: A Modeling Analysis. *Sexually Transmitted Diseases*. 2019; 46(6): 357–363.

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47. Hamilton DT, Goodreau SM, Jenness SM, Sullivan PS, Wang LY, Dunville RL, Barrios LC, Rosenberg ES. Potential Impact of HIV Preexposure Prophylaxis Among Black and White Adolescent Sexual Minority Males: A Modeling Study. *American Journal of Public Health*. 2018; 108(S4): S284–S291.

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37. Neaigus A, Reilly KH, Jenness SM, Hagan H, Wendel T, Gelpi-Acosta C, Marshall DM. Trends in HIV and HCV Risk Behaviors and Prevalent Infection among People Who Inject Drugs in New York City, 2005–2012. *Journal of Acquired Immune Deficiency Syndrome*. 2017; 75 Suppl 3: S325–S332.

36. Cassels S, Jenness SM, Biney AA, Dodoo FN. Geographic Mobility and Potential Bridging for Sexually Transmitted Infections in Agbogbloshie, Ghana. *Social Science and Medicine*. 2017; 184: 27–39.

35. Gwadz M, Cleland C, Perlman D, Hagan H, Jenness SM, Leonard N, Ritchie A, Kutnick A. Public Health Benefit of Peer-Referral Strategies for Detecting Undiagnosed HIV Infection among High-Risk Heterosexuals in New York City. *Journal of Acquired Immune Deficiency Syndrome*. 2017; 74(5): 499–507.

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31. Reilly KH, Neaigus A, Shepard CW, Cutler BH, Sweeney MM, Jenness SM, Wendel T, Marshall DM, Hagan H. It's Never Just HIV: Exposure to an HIV Prevention Media Campaign and Behavior Change Among Men Who Have Sex with Men Participating in the National HIV Behavioral Surveillance System in New York City. *LGBT Health.* 2016; 3(4):314–18.

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27. Jenness SM, Biney AA, Amfo WK, Nii-Amoo Dodoo F, Cassels S. Minimal Coital Dilution in Accra, Ghana. *Journal of Acquired Immune Deficiency Syndrome.* 2015; 69: 85–91.

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20. Reilly KH, Neaigus A, Jenness SM, Wendel T, Hagan H, Marshall DM, Murrill CS, Koblin BA. Trends in HIV Prevalence and Risk Behavior Among Men Who Have Sex with Men in New York City, 2004–11. *AIDS Education & Prevention*. 2014; 26(2): 134–43.

19. Beletsky L, Heller D, Jenness SM, Neaigus A, Gelpi-Acosta C, Hagan H. Syringe Access, Syringe Sharing, and Police Encounters among People who Inject Drugs in New York City: A Community-Level Perspective. *International Journal of Drug Policy*. 2014; 25(1): 105–11.

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17. Reilly KH, Neaigus A, Jenness SM, Hagan H, Wendel T, Gelpi-Acosta C. High HIV Prevalence Among Low-Income, Black Women in New York City with Self-Reported HIV Negative and Unknown Status. *Journal of Women’s Health*. 2013; 22(9): 745–54.

16. Neaigus A, Jenness SM, Hagan H, Murrill CS, Wendel T. Reciprocal Sex Partner Concurrency and Sexually Transmitted Diseases among Heterosexuals at High-Risk of HIV Infection. *Journal of Urban Health*. 2013;90(5): 902–14.

15. Cassels S, Manhart L, Jenness SM, Morris M. Short-term Mobility and Increased Partnership Concurrency among Men in Zimbabwe. *PloS One*. 2013; 8(6): e66342.

14. Jenness SM, Myers J, Neaigus A, Lulek J, Navejas M, Raj-Singh S. Delayed Entry into HIV Medical Care after HIV Diagnosis: Risk Factors and Research Methods. *AIDS Care*. 2012; 24(10): 1240–8.

13. Bertolli J, Shouse RL, Beer L, Valverde E, Fagan J, Jenness SM, Wogayehu A, Johnson C, Neaigus A, Hillman D, Courgen M, Brady KA, Bolden B. Using HIV Surveillance Data to Monitor Missed Opportunities for Linkage and Engagement in HIV Medical Care. *Open AIDS Journal*. 2012; 6(Supp 1): 131–41.

12. Neaigus A, Jenness SM, Hagan H, Murrill CS, Torian LV, Wendel T, Gelpi-Acosta C. Estimating HIV Incidence and the Correlates of Infection in Venue-Recruited Men Who Have Sex with Men in New York City. *AIDS & Behavior*. 2012; 16(3): 516–24.

11. Jenness SM, Neaigus A, Hagan H, Wendel T, Gelpi-Acosta C, Murrill CS. Recruitment-Adjusted Estimates of HIV Prevalence and Risk among Men Who Have Sex with Men: Effects of Weighting Venue-Based Sampling Data. *Public Health Reports*. 2011; 126(5): 635–42.

10. Gelpi-Acosta C, Hagan H, Jenness SM, Wendel T, Neaigus A. Sexual and Injection-Related Risk in Puerto Rican-Born Injection Drug Users Living in New York City: a Mixed-Methods Analysis. *Harm Reduction Journal*. 2011; 8(1): 28.

9. Jenness SM, Koblak P, Wendel T, Neaigus A, Murrill CS, Hagan H. Patterns of Exchange Sex among High-Risk Heterosexual Men and Women. *Journal of Urban Health*. 2011; 88(2): 329–41.

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5. Jenness SM, Hagan H, Liu KL, Wendel T, Murrill CS. Continuing HIV Risk in New York City Injection Drug Users: The Association of Syringe Source and Syringe Sharing. *Substance Use & Misuse*. 2011; 46(2-3): 192–200.

4. Jenness SM, Hagan H, Wendel T, Murrill CS, Neaigus A, Gelpi-Acosta C. Reconsidering the Internet as an HIV/STD Risk for Men Who Have Sex with Men. *AIDS & Behavior*. 2010; 14(6): 1353–61.

3. Hagan H, Jenness SM, Wendel T, Murrill CS, Neaigus A, Gelpi-Acosta C. Herpes Simplex Virus Type 2 Associated with HIV Infection among New York Heterosexuals Living in High-Risk Areas. *International Journal of STD & AIDS*. 2010; 21(8): 580–3.

2. Jenness SM, Neaigus A, Hagan H, Murrill CS, Wendel T. HIV Infection and Sexual Partnerships between Injection Drug Users and Non-Injectors. *AIDS Patient Care & STDS*. 2010; 24(3): 175–81.

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**CONFERENCE PRESENTATIONS & INVITED TALKS**

34. The Role of HIV Partner Services in the Modern Biomedical HIV Prevention Era: A Network Modeling Study. *Sexually Transmitted Diseases Prevention Conference*. 2022.

33. The Role of ART-Based Prevention Tools in Reducing HIV Disparities among US Men Who Have Sex with men. *Translating Research into Prevention (TRIP) Seminar, Division of HIV Prevention, Centers for Disease Control and Prevention*. 2022.

32. Statistical Approaches to Modeling Epidemics Across Temporal Contact Networks. *Seminar in Network Analysis at Carolina (SNAC), University of North Carolina*. 2022.

31. Statistical Approaches to Modeling Epidemics Across Temporal Contact Networks. *Data Science in the Social and Behavioral Sciences Workshop, Statistical and Applied Mathematical Sciences Institute, National Science Foundation*. 2021.

30. Statistical Approaches to Modeling Epidemics Across Temporal Contact Networks. *Isaac Newton Institute for Mathematical Sciences, Models Old and New Seminar Series*. Cambridge, UK; 2020.

28. Epidemic Models for Projecting the COVID-19 Global Pandemic. *Oxford College at Emory University Special Seminar*. Atlanta; 2020.

Recording: [https://youtu.be/D-AY5nxXmV0](https://youtu.be/D-AY5nxXmV0)

28. Infectious Disease Dynamics and the COVID-19 Global Pandemic. *Emory University School of Medicine Seminar*. Atlanta; 2020.
27. Network Transmission Models to Identify Novel Strategies for HIV/STI Prevention. 
   *City University of New York School of Public Health, Department of Epidemiology & Biostatistics Seminar.* New York City; 2019.

26. Linking Network Science and Epidemic Modeling to Optimize HIV/STI Prevention. 
   *University of Alabama at Birmingham School of Public Health Epidemiology Seminar.* Birmingham; 2019.

25. Innovations in Methods and Applications of Mathematical Modeling for HIV PrEP. 
   *Society of Epidemiological Research Annual Meeting.* Seattle; 2019.

24. Models for the HIV Prevention and Care Continuum in Atlanta and Beyond. 
   *Emory University Center for AIDS Research Network Seminar.* Atlanta; 2019.

23. Network Modeling of HIV/STI Transmission Dynamics with EpiModel. 
   *NIH Modeling Infectious Disease Agents Study (MIDAS) Annual Meeting.* Bethesda MD; 2019.

22. Linking Network Science and Agent-Based Modeling for HIV/STI Prevention. 
   *Center for Drug Use and HIV Research Seminar, New York University Global College of Public Health.* New York; 2019.

21. Network Transmission Models to Identify Novel Strategies for HIV and STI Prevention. 
   *Infectious Disease Epidemiology Seminar, Columbia University Mailman School of Public Health.* New York; 2019.

20. Integrating Agent-Based Models for Infectious Disease and Statistical Methods for Dynamic Networks 
   with EpiModel. *Sunbelt Conference of the International Network for Social Network Analysis.* Utrecht (Netherlands); 2018.

19. Validation of Network Data for Dynamic Network Models of HIV/STI Transmission. 
   *Integration of Empirical Data in Network Epidemiology Satellite, NetSci Conference.* Paris; 2018.

18. Network Modeling for Epidemics with EpiModel. 
   *University of Minnesota School of Public Health Seminar.* Minneapolis; 2018.

17. Modeling Feedback Effects Between Sexual Behavior and Use of HIV/STI Prevention Tools. 
   *Modeling Social Dynamics & Health Behavior Conference, University of Pittsburgh School of Public Health.* Pittsburgh; 2018.

16. Network Models for HIV/STI Transmission Dynamics: Statistical Methods and Computational Tools. 
   *Society for Prevention Research Symposium.* Washington DC; 2018.

15. EpiModel: Software Tools for Modeling Infectious Disease over Dynamic Contact Networks. 
   *NIH Modeling Infectious Disease Agents Study (MIDAS) Annual Meeting.* Bethesda MD; 2018.

13. Agent-Based Modeling and Network Analysis for Infectious Disease Epidemiology: Methods, Software, 
   and Applications. *Department of Epidemiology and Biostatistics Seminar, Drexel University.* Philadelphia; 2018.

12. Network Modeling for Epidemics with EpiModel. 
   *Public Health Dynamics Lab, University of Pittsburgh School of Public Health.* Pittsburgh; 2018.

11. Mathematical Models for Infectious Disease Transmission Dynamics over Complex Contact Networks: 
   Statistical Methods and Applications for HIV/STI Prevention Science. 
   *Northwestern University Institute on Complex Systems (NICO) Seminar.* Chicago; 2017.
11. STI Incidence Following HIV PrEP Initiation among United States Men Who Have Sex with Men. *National Coalition of STD Directors Seminar.* Atlanta; 2017.

10. Network Modeling for Infectious Disease Dynamics: A Brief Workshop. *University of California San Francisco PhD Program in Epidemiology and Translational Science.* San Francisco; 2016.

9. Mathematical Models for Infectious Disease Transmission Dynamics over Networks: Statistical Methods, Software Tools, and Applications for HIV/STI Prevention Science. *Northwestern University Center for Prevention Implementation Methodology (Ce-PIM) Grand Rounds.* Chicago; 2016.

8. Data-Driven Stochastic Modeling of HIV Epidemics over Networks using EpiModel. *Applying Simulation Science to HIV Prevention (NIAID/NIMH Research Consultation).* Washington DC; 2016.

7. Impact of CDC’s HIV Preexposure Prophylaxis Guidelines among MSM in the United States. *CDC National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention Meeting.* Atlanta; 2016.

6. Network-Based Mathematical Models to Evaluate Interference within HIV Prevention Trials. *Harvard University Department of Biostatistics Causal Inference Working Group.* Boston; 2015.

5. HIV-1 Transmission Across Sexual Networks: Mathematical Methods for Evaluating HIV Prevention Strategies in Sub-Saharan Africa. *Emory University Department of Epidemiology Seminar.* Atlanta; 2015.

4. HIV-1 Transmission Across Sexual Networks: Implications for Comprehensive Prevention Strategies in Sub-Saharan Africa. *University of Washington Center for Studies in Demography & Ecology.* Seattle; 2015.

3. The Design, Implementation, and Analysis of Respondent-Driven Sampling and Venue-Based Sampling Studies. *New York University Grand Rounds.* New York; 2011.

2. Reconsidering the Internet as an HIV/STD Risk for Men Who Have Sex with Men. *New York City Department of Health HIV Grand Rounds.* New York; 2010.

1. HIV Testing among an Urban High-Risk Heterosexual Population: Implications for Routine and Risk-Based Testing Strategies. *New York City Department of Health Epidemiology Grand Rounds.* New York; 2008.

**SOFTWARE**

**EpiModel** Tools for simulating mathematical models of infectious disease. Epidemic model classes include deterministic compartmental models, stochastic individual contact models, and stochastic network models using temporal exponential random graph models.

*Website:* [http://epimodel.org/](http://epimodel.org/)

**EpiModelHIV** Extension package to EpiModel for simulating network models for HIV transmission dynamics, in target populations of heterosexual couples in Sub-Saharan Africa and men who have sex with men (MSM) in the United States, with a focus on assessing emerging biomedical HIV prevention technologies.

*Website:* [http://github.com/statnet/EpiModelHIV/](http://github.com/statnet/EpiModelHIV/)
tergmLite  Methods for simulating dynamic contact networks with ERGMs using a sparse matrix representation of the networks, resulting in an improvement in the efficiency and speed of epidemic models.  
Website: [http://github.com/statnet/tergmLite/]

EpiModelHPC  Supports simulating large-scale stochastic network models on modern high-performance computing systems. Functionality provided to simulate models in parallel using either single-node, multiple-core or multiple-node setups.  
Website: [http://github.com/statnet/EpiModelHPC/]

EpiABC  Implementation of Approximate Bayesian Computation with Sequential Monte Carlo Methods (ABC-SMC) optimized for use with EpiModel R package epidemic simulations running on High-Performance Computing (HPC) cluster environments.  
Website: [http://github.com/EpiModel/EpiABC/]

EXTRAMURAL RESEARCH FUNDING

Current

Principal Investigator

Sexually Transmitted Infection Responses and Recommendations Under PrEP (STIRRUP)  
A study using big data combined with epidemic modeling and economic decision analysis methods to optimize screening and treatment for bacterial STIs within comprehensive HIV PrEP care.  
NIH R01 MH128130

EpiModel 2.0: Integrated Network Models for HIV/STI Prevention Science  
A methodological project to development of framework and software tools to project the impact of innovative HIV/STI prevention tools, providing robust computational infrastructure for external users.  
NIH R01 AI138783

Site Principal Investigator

Cabotegravir PrEP: Actionable Robust Evidence for Translation into Practice (CABARET)  
A study to evaluate the real-world use, clinical outcomes, and optimal investment of resources for long-acting injectable PrEP, informing implementation strategies to maximize impact. Site PI for Emory.  
NIH R01 AI174862

Leveraging Data Synthesis to Identify Optimal and Robust Strategies for HIV Elimination among Substance-Using MSM  
A study using network analysis and mathematical modeling to identify addressing substance-related drivers of HIV transmission and opportunities for HIV prevention among MSM. Site PI for Emory.  
NIH R01 DA055502

Expedited Partner Therapy and the HIV Prevention Cascade Among MSM in Peru  
A partner-linked clinical trial and modeling study on using partner-delivered antibiotic treatment for gonorrhea and chlamydia to prevent recurrent within-partnership STI transmission. Site PI for Emory.  
NIH R01 MH118973

Expedited Partner Therapy and the HIV Prevention Cascade Among MSM in Peru  
A partner-linked clinical trial and modeling study on using partner-delivered antibiotic treatment for gonorrhea and chlamydia to prevent recurrent within-partnership STI transmission. Site PI for Emory.  
NIH R01 MH118973
Co-Investigator

**Integrating the Visualization and Use of Stigma Data to Maximize the Impact of the Ending the HIV Epidemic Initiative**
2022-2027
A study combining data visualization, implementation research, and epidemic modeling methods to understand the impact of stigma mitigation on EHE pillars and local HIV incidence.

**Investigation of COVID-19 Disease Parameters for Transmission Models in Low-Resource Settings**
2022-2027
An empirical mixed-methods study identify COVID-19-specific parameters for low-income settings to be implemented in mathematical models for prevention and pandemic response.

**Surveillance via Wastewater Monitoring and Self-Collection of COVID-19 Samples in Correctional Settings**
2021-2023
Gates Foundation
An empirical mixed-methods study involving wastewater surveillance, testing, and modeling data to guide public health interventions to prevent SARS-CoV-2 transmission in correctional settings.

**NEEMA: Enhancing Models of HIV, Viral Hepatitis, STIs, and Tuberculosis to Inform and Improve Public Health**
2014-2024
CDC U38 PS004646
Ongoing cooperative agreement for policy-oriented economic and epidemic modeling projects for infectious disease control. EpiModel Research Lab funded to model the impact of federal HIV/STI policy.

**CorporateMix: Comprehensive Profiling of Social Mixing Patterns in Workplace Settings**
2019-2022
CDC U01 CK000572
A descriptive study of social mixing patterns in corporate office settings to better parameterize epidemic models, and thus evaluate infectious disease interventions using seasonal influenza pandemics.

**GlobalMix: Comprehensive Profiling of Social Mixing Patterns in Resource Poor Countries**
2019-2024
NIH R01 HD097175
A multi-site descriptive study to collect social contact data from urban and rural populations in Guatemala, Pakistan, India, and Mozambique using social contact diaries and wearable sensors.

**CONTEXT: The Role of Casual Contact and Migration in XDR Tuberculosis Transmission**
2018-2022
NIH R01 AI38646
An empirical mixed-methods study that integrates geospatial, genomic, and social network data to characterize the contributions of casual contact and migration to XDR TB transmission in Africa.

Completed

Principal Investigator

**Modeling Antiretroviral-Based Prevention among Men Who Have Sex with Men in the US**
2017-2020
NIH R21 MH112449
A descriptive study that collected sexual network data from men who have sex with men across the US, to support our modeling activities software for HIV transmission dynamics and interventions.
Local Models for Comprehensive HIV Prevention Planning 2016–2017
NIH P30 AI050409
A feasibility study that developed a model of HIV transmission dynamics in Atlanta and Seattle. Funded through a competitive internal review of the Emory Centers for AIDS Research Developmental Core.

Site Principal Investigator

Modeling the Evolutionary and Public Health Impact of HIV Adaptation in Response to Vaccination 2017–2021
NIH R01 GM125440
A modeling project that investigated the population-level impact of an HIV evolutionary response to a partially effective vaccine similar to RV144 to quantify viral adaptation.

Washington State 2018–2020
HIV Prevention Models WA DOH 23192
A modeling study using dynamic epidemic models paired with health economic optimization models to evaluate optimal HIV prevention strategies for the Washington State Department of Health.

Co-Investigator

Making it Last: An RCT of a Home Care System to Promote Persistence in PrEP Care 2017–2022
NIH R01 MH114692
A clinical trial to develop a home-based monitoring and support system to replace quarterly, in-person provider visits for ongoing HIV PrEP care, measuring the levels of retention in PrEP.

Healthmindr: Theoretically Based Mobile App to Increase PrEP Uptake among Men Who Have Sex with Men 2017–2022
NIH R01 DA045612
A clinical trial to test the efficacy of a mobile phone application to promote PrEP uptake in 3 US cities, with self-administered assessments for behavioral risk, HIV testing, and PrEP initiation.

ePrEP: An RCT of an Electronic HIV PrEP Care System among Rural Men Who Have Sex with Men 2017–2022
NIH U19 HD089881
A clinical trial to test a home-care system for PrEP allowing rural MSM to initiate and maintain PrEP clinical care combining behavioral surveillance with app-based telemedicine.

CePIM: Center for Prevention Implementation Methodology 2016–2018
NIH P30 DA027828
A NIDA Center for Excellence addressing HIV prevention as it relates to drug use and abuse, implementation science, and network science. Funded as an Early-Stage Investigator.

Statistical Methods for Network Epidemiology 2011–2016
NIH R01 HD068395
A methodological project building the statistical theory, methods, and computer software to establish a principled approach to network epidemiology, with a focus on a modeling platform for epidemics.

Peer-Driven Intervention to Seek, Test & Treat for HIV 2011–2015
NIH R01 DA032083
A clinical trial that evaluated the efficacy of a multi-level enhanced peer-driven intervention to identify and HIV test high-risk heterosexuals, and to link newly diagnosed infected persons to HIV medical care.
TEACHING

Semester Courses

**Emory EPI 512 (1 credit)**  
*Current Topics in Infectious Disease Epidemiology*  
2021–present

**Emory EPI 570 (3 credits)**  
*Infectious Disease Dynamics: Theory and Models*  
2017–present

Short Courses

**Network Modeling for Epidemics**  
University of Washington  
2013–present

**Modeling for HIV/STI Prevention Science**  
Harvard University School of Public Health  
2017

**Network Statistics in Health Research**  
University of Ghent (Belgium)  
2014–2015

**Modeling Epidemics with EpiModel**  
INSNA Sunbelt Conference  
2014–2015

Guest Lectures

**Emory EPI 546 (HIV Epidemiology)**  
*Topic: Mathematical Modeling for HIV Epidemiology*  
2017–2022

**Emory EPI 569 (Concepts and Methods in Infectious Disease Epi)**  
*Topic: Contact Networks for Infectious Diseases*  
2017–2022

**Emory EPI 591 (Social Epidemiology)**  
*Topic: Network Science for HIV Epidemiology*  
2021, 2023

**Emory BSHE 535 (Social Determinants of Health)**  
*Topic: Agent-Based Modeling of Social Determinants of Health*  
2016–2020

**Emory EPI 550 (STI Epidemiology)**  
*Topic: Mathematical Modeling for STI Epidemics*  
2016

**Emory EPI 590 (Implementation Science)**  
*Topic: Mathematical Modeling for Implementation Science Research*  
2016
MENTORING

Post-Doctoral Fellows
Adrien Le Guillou  Fellowship Mentor  2019–2020

PhD Students
Primary Mentor
Jonathan Tingle  Dissertation Committee Chair  2022–present
Udodirin Onwubiko  Dissertation Committee Co-Chair  2021–present
Christina Chandra  Dissertation Committee Chair  2020–present
Laura Mann  Dissertation Committee Chair  2018–present
Emeli Anderson  Dissertation Committee Chair  2017–2022
Kevin Maloney  Dissertation Committee Chair  2018–2021

Secondary Mentor
Carmen Alvarez (PBEE)  Dissertation Committee Member  2022–present
Maria Garcia Quesada  RA Advisor  2022–present
Carol Liu  Dissertation Committee Member  2022–present
Enoch Chen  Dissertation Committee Member  2020–present
Kristin Harrington  Dissertation Committee Member  2020–2022
Jordan Johnson  RA Advisor  2019–2020
Jason Gantenberg  Dissertation Committee Member  2019–2021
Supriya Sarkar  Dissertation Committee Member  2018–2021
Kristin Nelson  Dissertation Committee Member  2016–2018
Johana Bardales  Dissertation Committee Member  2016–2018
Jeb Jones  Dissertation Committee Member  2016

MPH/MSPH/MS Students
Primary Mentor
Benjamin Goldberg  RA Advisor  2022–2023
Isaac Schneider  RA Advisor, Thesis Chair  2022–2023
Karina Wallrafen-Sam  RA Advisor, Thesis Chair  2022–2023
Kathyrn Krupinsky  RA Advisor, Thesis Chair  2020–2022
Ann Shen  Thesis Chair  2020–2021
Shiyun Qin  Thesis Chair  2020–2021
Connor Van Meter  RA Advisor, Thesis Chair  2018–2020
Yuan Zhao  RA Advisor  2018–2019
Ramya Ramaraju  RA Advisor  2018–2019
Pragati Prasad \hspace{3em} RA Advisor, Thesis Chair \hspace{3em} 2017–2019
Farah Ahmed \hspace{3em} Thesis Chair \hspace{3em} 2017–2018
Stephen Uong \hspace{3em} Thesis Chair \hspace{3em} 2017–2018
Caleb Ebert \hspace{3em} Thesis Chair \hspace{3em} 2017–2018
Bonnie Gale \hspace{3em} Thesis Chair \hspace{3em} 2017–2018
Kyndall White \hspace{3em} Thesis Chair \hspace{3em} 2017–2018
Romana Fetherolf \hspace{3em} Thesis Chair \hspace{3em} 2016–2017
Maraia Tremarelli \hspace{3em} RA Advisor \hspace{3em} 2016–2017

**DEPARTMENT COMMITTEE SERVICE**

1. MPH/MSPH Admission Committee \hspace{3em} 2016–2021
2. PhD Program Committee \hspace{3em} 2017–present
3. PhD Admissions Committee \hspace{3em} 2017–present
4. PhD Qualifying Exam Committee
   - Member \hspace{3em} 2018–2021
   - Chair \hspace{3em} 2022–present
5. Faculty Search Committee \hspace{3em} 2019–2021

**GRANT REVIEW**

1. Emory Center for AIDS Research \hspace{3em} 2017–present
   - Development Core Pilot Grant Program
2. Emory University Research Committee \hspace{3em} 2018
   - Interdisciplinary Pilot Grants Subcommittee
3. NIH Study Section
   - Population and Public Health Approaches to HIV/AIDS (PPAH)
     - Ad Hoc Review \hspace{3em} 2019–2021
     - Standing Member \hspace{3em} 2022–2026
# Editorial Board Roles

**Epidemiology**
Editorial Board 2022–present

**Sexually Transmitted Diseases**
Editorial Board 2020–present

## Journal Review

| Category                                      | Journal                                    |
|-----------------------------------------------|--------------------------------------------|
| AIDS                                          | *Journal of Infectious Diseases*           |
| AIDS & Behavior                               | *Journal of the International AIDS Society* |
| AIDS Care                                     | *Journal of Medical Internet Research*     |
| AIDS Patient Care & STDs                      | *Journal of Statistical Software*          |
| American Journal of Epidemiology              | *Journal of Women’s Health*                |
| American Journal of Public Health             | *Lancet Infectious Disease*                |
| Annals of Epidemiology                        | *Lancet Public Health*                     |
| Applied Network Science                       | *Lancet Regional Health*                   |
| Bioinformatics                                | *Nature Communications*                   |
| BMC Infectious Diseases                       | *Network Science*                          |
| BMC Public Health                             | *Open Forum Infectious Diseases*           |
| Clinical Infectious Diseases                  | *PLoS One*                                 |
| Demography                                    | *Prevention Medicine*                      |
| Drug & Alcohol Dependence                     | *Proceedings of the National Academy of Sciences* |
| eLife                                         | *R Journal*                                |
| Epidemics                                     | *Sexually Transmitted Diseases*            |
| Epidemiology                                  | *Sexually Transmitted Infections*          |
| International Journal of STD & AIDS          | *Social Networks*                          |
| Journal of AIDS                               |                                            |