

Jordan D. Klein

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RESEARCH INTERESTS

Substantive: Mortality, Migration and Mobility, Social Epidemiology, Re-/Emerging Infectious Disease, Environmental Demography, Climate Change and Health, Historical Epidemiology and Demography, Political Economy of Health

Data: Official Statistics, Civil and Vital Registration, Surveys, Digital Trace, Disease Surveillance, Geospatial

Methods: Statistics, Machine Learning, Mechanistic Modeling and Simulation, Demographic Measurement and Estimation, Time Series and Panel Models, Non-parametric Models, Bayesian Hierarchical Models, Forecasting, Causal Inference

EDUCATION

PRINCETON UNIVERSITY September 2019-May 2024 (anticipated)
Doctor of Philosophy Princeton, NJ, USA
Demography. *Subfields: International comparative epidemiology and computational demography.*
Graduate Certificate in Statistics and Machine Learning
Committee members/advisors: Noreen Goldman (Chair), Jessica Metcalf, Filiz Garip, Deborah Balk
Dissertation: Emerging and Re-Emerging Infectious Diseases and their Social Contexts

COLUMBIA UNIVERSITY SCHOOL OF PROFESSIONAL STUDIES January 2018-May 2019
Graduate Certificate New York, NY, USA
Mathematics. GPA: 4.0/4.0

TUFTS UNIVERSITY SCHOOL OF MEDICINE May 2016-May 2017
Master of Public Health Boston, MA, USA
Epidemiology and Biostatistics. GPA: 3.9/4.0

TUFTS UNIVERSITY SCHOOL OF ARTS AND SCIENCES September 2012-May 2016
Bachelor of Science Medford, MA, USA
International Relations (global health, nutrition, and the environment) and Biology. GPA: 3.3/4.0

PUBLICATIONS

Peer reviewed

Pascual-García, A., **Klein, J. D.**, Villers, J., Campillo-Funollet, E., & Sarkis, C. (2021). [Empowering the crowd: feasible strategies for epidemic management in high-density informal settlements. The case of COVID-19 in Northwest Syria](#). *BMJ Global Health*, 6(8), e004656.

Forthcoming

Klein, J. D., Weber, I., & Zagheni, E. [Stop, in the name of COVID!](#) *SocArXiv*. doi:10.31235/osf.io/s3ztq (Forthcoming at *Demography*)

Klein, J. D., Rasoanomenjanahary, A. [Climate change and health transitions: Evidence from Antananarivo, Madagascar](#). *OSF Preprints*. doi: 10.31219/osf.io/hk7fp (Forthcoming at *Demographic Research*)

Working papers

Klein, J. D. Must whatever goes up come down? Mortality gradients in the emergence of COVID-19.

PROFESSIONAL EXPERIENCE

ROCKEFELLER FOUNDATION PANDEMIC PREVENTION INSTITUTE May-December 2022
Associate Washington, DC, USA

MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH May-August 2021
Guest Researcher Rostock, Germany

ABT ASSOCIATES July 2017-March 2019
Associate Analyst New York, NY, USA

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH June-July 2017
Laboratory Technician Boston, MA, USA

CHRISTIAN MEDICAL COLLEGE (CMC) September-December 2016
Research Assistant Vellore, India

WORLD HEALTH ORGANIZATION July-August 2016
Intern, Health Systems and Innovation Geneva, Switzerland

ENBIOTIX, INC May-August 2015
Business Development Intern Cambridge, MA, USA

TUFTS SCHOOL OF GRADUATE BIOMEDICAL SCIENCES June 2014-May 2015
Undergraduate Research Assistant Boston, MA, USA

AVODEC June-August 2013
Monitoring and Evaluation Intern Jinotega, Nicaragua

CONGRESSWOMAN NITA LOWEY July-August 2011
District Office Intern White Plains, NY, USA

INVITED TALKS AND PRESENTATIONS

Upcoming

“Must whatever goes up come down? Mortality gradients in the emergence of COVID-19.” Population Association of America Poster Session, April 2024.

Previous

“Must whatever goes up come down? Mortality gradients in the emergence of COVID-19.” Wittgenstein Centre Conference Poster Session, December 2023.

“Must whatever goes up come down? Mortality gradients in the emergence of COVID-19.” European Association of Population Studies Health, Morbidity, and Mortality Working Group Poster Session, September 2023.

“Must whatever goes up come down? Mortality gradients in the emergence of COVID-19.” British Society for Population Studies Conference Oral Session, September 2023.

“Whatever Goes Down Must Come Up: Social Gradients in Emerging Infectious Diseases.” Ecology and Evolution of Infectious Diseases Conference Poster Session, May 2023.

“Climate Change and Health Transitions: Evidence from Antananarivo, Madagascar.” Wittgenstein Centre Conference Oral Session, December 2022.

“Stop, in the name of COVID! Estimating the effects of COVID-19-related travel restrictions on migration using social media data.” British Society for Population Studies Oral Session, September 2022.

“Stop, in the name of COVID! Estimating the effects of COVID-19-related travel restrictions on migration using social media data.” IMISCOE Conference Panel Session, June-July 2022.

“Stop, in the name of COVID!” European Population Conference Oral Session, June-July 2022.

“Climate change and health transitions: Evidence from Antananarivo, Madagascar.” Population Association of America Conference Oral Session, April 2022.

“Stop, in the name of COVID!” Population Association of America Conference Oral Session, April 2022.

“Climate change and epidemiological transitions: Evidence from Antananarivo, Madagascar.” European Society of Historical Demography Conference Oral Session, March 2022.

“Empowering the crowd: Feasible strategies to minimize the spread of COVID-19 in high-density informal settlements.” International Population Conference Oral Session, December 2021.

“Climate change and epidemiological transitions: Evidence from Antananarivo, Madagascar.” International Population Conference Poster Session, December 2021.

“Predicting Global Migration with Social Media Data: Potential and Limits.” Max Planck Institute for Demographic Research Laboratory of Digital and Computational Demography Online Seminar Invited Talk, March 2021.

“Antibiotics in the Global Livestock Industry: Projections and Policy Recommendations.” Tufts Food Systems Symposium Poster Session, April 2017.

“Global Livestock Production and Antimicrobial Resistance: Outlook and Steps Forward.” World Health Organization Seminar, August 2016.

“The role of Adhesins in *B. burgdorferi* (Lyme Disease) in Establishing and Maintaining Infection in the Mammalian Host.” Project Lever Undergraduate Research Expo Invited Talk, September 2014.

TEACHING EXPERIENCE

Public & International Affairs 598/Population Studies 508:

Epidemiology

Spring 2022, Spring 2021

Princeton University

Preceptor for Noreen Goldman.

Politics 345/Sociology 305/Public & International Affairs 211:

Introduction to Quantitative Social Science

Fall 2020

Princeton University

Preceptor for Marc Ratkovic.

CONSULTING WORK AND CLIENT PROJECTS

Organization for Economic Cooperation and Development, 2021- Coopération Sud Sud en matière de migration.

Zebra Strategies, 2019- Public health and market research survey design.

Abt Associates for MDRC, 2019- Variations in Implementation of Quality Interventions Study.

Abt Associates for U.S. Department of Labor, 2019- Family and Medical Leave Act Survey.

Abt Associates for U.S. Department of Veterans Affairs, 2018- Comparative Health Assessment Interview Research Study.

Abt Associates for INSEAD, 2018- INSEAD Alumnae Impact Report.

NON-ACADEMIC AND MEDIA PUBLICATIONS

Wolansky, L., Johnson, K., Thrift, B., **Klein, J.**, Mantsoki, A., Uplekar, S. [SARS-CoV-2 Genomic Surveillance Global Capacity Mapping](#). The Rockefeller Foundation and FIND, 2022.

Klein, J., Samuel, I. [We Measured Brett Kavanaugh's Likely Impact on the Court](#). Crooked, 2018.

Klein, J. [How Kavanaugh Would Change the Court: Methodology](#). Data for Progress, 2018.

VOLUNTEERING AND SERVICE

CROWDFIGHT COVID-19 May 2020-July 2021

Scientific Researcher

DATA FOR PROGRESS May 2018-May 2019

Senior Advisor

DATA FOR DEMOCRACY January-June 2017

Data Scientist

TUFTS HUMAN HEALTH HACK July 2014-May 2016

Founding Director

TUFTS INSTITUTE FOR GLOBAL LEADERSHIP BUILD September 2012-May 2016

Finance Committee Co-Chair

AWARDS, FELLOWSHIPS, AND GRANTS

Yun Kim and Harold Kim Graduate Fellowship, Princeton University, 2023-2024, 2022-2023, 2021-2022, and 2020-2021 academic years.

Dean's Fund for Scholarly Travel, Princeton University, September 2023 and January 2022.

Professional Development Travel Fund, Princeton University, June 2023.

Burns "Bud" Roper AAPOR Fellow Award, American Association for Public Opinion Research (AAPOR), March 2018.

Clinton Global Initiative University Fellowship, Clinton Global Initiative University, April 2016.

Global Health Travel Fellowship, Tufts University School of Medicine, March 2016.

Internship Challenge Award, Massachusetts Life Sciences Center, May 2015.

Tufts Office of the Provost and Senior Vice President Grant, April 2015.

Tufts Institute for the Environment Grant, April 2015.

Tufts Institute for Innovation Grant, April 2015.

Millennium Fellowship, Millennium Campus Network, November 2014.

Project Lever Fellowship, Project Lever, September 2014.

Empower Fellowship, Tufts Institute for Global Leadership, May 2013.

Eagle Scout, Boy Scouts of America, June 2012.

WORKSHOPS, SHORT COURSES, AND PROFESSIONAL DEVELOPMENT

Clinic on Meaningful Modeling of Epidemiological Data	June-July 2023
African Institute for Mathematical Sciences	Cape Town, South Africa

Topics in Digital and Computational Demography	November 2021
Max Planck Institute for Demographic Research	Online

Berkeley Workshop in Formal Demography	May 2021
University of California Berkeley	Online

Duke Global Policy Program	July 2016
Duke University	Geneva, Switzerland

PROFESSIONAL ASSOCIATIONS

Population Association of America

International Union for the Scientific Study of Population

REVIEWER

Environmental Health Perspectives

SKILLS AND COMPETENCIES

Language: English (native), Spanish (proficient in written and oral communication), German (proficient in written and oral communication), French (reading comprehension), Portuguese (reading comprehension)

Software: Statistical programming (R, Python, Stata, SPSS), geospatial (sf, ArcGIS, simple features, GDAL, Google Maps API, Mapbox), visualization (ggplot2, matplotlib, Tableau, Flourish), reporting (LaTeX, Markdown), version control (Git, GitHub), Bayesian hierarchical models (JAGS), web development (R Shiny, Hugo, JS, HTML, CSS), data storage and processing (S3, Spark), MS Suite, Ubuntu

REFERENCES

Dr. Noreen Goldman

Hughes-Rogers Professor of Demography and Public Affairs, Princeton University
ngoldman@princeton.edu

Dr. C. Jessica E. Metcalf

Professor of Ecology and Evolutionary Biology and Public Affairs, Princeton University
cjmetcalf@princeton.edu

Dr. Filiz Garip

Professor of Sociology and Public Affairs, Princeton University
fgarip@princeton.edu

Dr. Deborah L. Balk

Director, CUNY Institute for Demographic Research and Professor of Public and International Affairs,
City University of New York
deborah.balk@baruch.cuny.edu

Leo Wolansky

Director of Data Products | Health Initiative, Rockefeller Foundation
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