

# NICK GRAETZ

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## ACADEMIC POSITIONS

2021-Present      Post-Doctoral Research Associate (Eviction Lab), Princeton University.

## EDUCATION

2021    Ph.D., Demography and Sociology (*with distinction*), University of Pennsylvania.

**Dissertation:** “The relational role of place in the production of racial stratification”

**Committee:** Irma Elo (chair), Courtney Boen, Xi Song, Tukufu Zuberi, Daniel Aldana Cohen

**Exams:** Structural racism and the political economy of place (*with distinction*); Demography

2016    M.P.H., Health Metrics and Evaluation, University of Washington.

2013    B.S., Psychology (*with distinction*) and Political Science, University of Wisconsin-Madison.

## PROFESSIONAL POSITIONS

2021-Present      Research Fellow, *Lipman Inequality Project*, New York, NY.

2021-Present      Research Affiliate, *Penn Population Studies Center*, Philadelphia, PA.

2020-Present      Member, *climate + community project*, Philadelphia, PA.

2019-Present      Junior Research Fellow, *Data for Progress*, New York City, NY.

2018-Present      Co-Principal Investigator, *Whole Community Climate Mapping*, Berkeley, CA.

2018-2021      Technical Consultant, *Council on Foreign Relations*. Washington, D.C.

2016-2019      Researcher, *Institute for Health Metrics and Evaluation*, Seattle, WA.

2015-2015      Visiting Research Fellow, *University of Zambia*, Lusaka, Zambia.

2013-2016      Post-Bachelor Fellow, *Institute for Health Metrics and Evaluation*. Seattle, WA.

## RESEARCH AND TEACHING INTERESTS

Housing, population health, structural racism, economic sociology, political economy, social policy, causal inference, mediation/decomposition analysis, Bayesian small area estimation

## SELECT PEER REVIEWED PUBLICATIONS

**Graetz, N.** & Esposito, M.H. (2022). Historical redlining and contemporary racial disparities in neighborhood life expectancy. *Social Forces*, [Online First](#).

Hepburn, P., Haas, J., **Graetz, N.**, et al. (forthcoming). Protecting the most vulnerable: Policy response and eviction filing patterns during the COVID-19 pandemic. *RSF: The Russell Sage Foundation Journal of the Social Sciences*.

Cohen, D.A., Cha, J.M., **Graetz, N.**, Singhal, A., Sen, R. (forthcoming). Securing climate justice federally: A political economy approach to targeted investments. *Environmental Justice*.

**Graetz, N.**, Boen, C., Esposito, M.H. (2022). Structural racism and quantitative causal inference: A life-course mediation framework for decomposing racial health disparities. *Journal of Health and Social Behavior*, 63(2): 232-249.

**Graetz, N.**, Ummel, K., Cohen, D.A. (2022). Small-area analyses using public American Community Survey data: A tree-based spatial microsimulation technique. *Sociological Methodology*, 52(1): 53–74.

Boen, C., **Graetz, N.**, et al. (2022). Early life patterns of criminal justice involvement: Inequalities by race-ethnicity, gender, and socioeconomic status. *Demographic Research*, 46(5): 131-146.

Bollyky, T., **Graetz, N.**, et al. (2022). Growing up and moving out: Migration and the demographic transition in low-income nations. *Population Studies*, 76(1): 63-80.

**Graetz, N.**, Elo, I.T. (2021). Decomposing county-level working-age mortality trends in the United States between 2000 and 2017. *Spatial Demography*, 10: 33-74.

Boen, C., Keister, L.A., **Graetz, N.** (2021). Household wealth and child body mass index: Patterns and mechanisms. *RSF: The Russell Sage Foundation Journal of the Social Sciences*, 7(3): 80–100.

**Graetz, N.** et al. (2020). Mapping persistent local disparity in educational attainment across low- and middle-income countries. *Nature*, 577, 235-238.

**Graetz, N.**, Preston, S.H., Peele, M., Elo, I.T. (2020). Ecological factors associated with suicide mortality among non-Hispanic whites. *BMC Public Health*, 20(1339).

Friedman, J., York, H., **Graetz, N.** et al. (2020). Measuring and forecasting progress towards the education-related SDG targets. *Nature*, 580: 636-639.

**Graetz, N.** et al. (2018). Mapping local variation in education across Africa, 2000-2015. *Nature*, 555: 48-53.

Reiner, R. C., **Graetz, N.**, et al. (2018). Variation in childhood diarrheal morbidity and mortality in Africa, 2000-2015. *New England Journal of Medicine*, 379: 1128-1138.

Friedman, J., **Graetz, N.**, Gakidou, E. (2018). Improving the estimation of educational attainment: New methods for assessing average years of schooling from binned data. *PLoS ONE*, 13(11).

Haagsma, J., **Graetz, N.**, et al. (2015). The global burden of injury: Incidence, mortality, disability-adjusted life years and time trends from the Global Burden of Disease Study 2013. *Injury Prevention*, 22(1): 3-18.

## MANUSCRIPTS UNDER REVIEW

Cohen, D.A., **Graetz, N.**, Prins, S.J., Esposito, M.H. (2022). American Eco-Apartheid: Mapping the links between racial disparities in longevity with political economy, state violence, and environmental exposure. *Revise and resubmit.*

**Graetz, N.** (2022). Historical mechanisms connecting home values over three generations to contemporary Black-white disparities in wealth. *Under review.*

## MANUSCRIPTS IN PREPARATION

**Graetz, N.**, et al. (2022). The impacts of rent burden and eviction on all-cause mortality in the United States.

**Graetz, N.**, et al. (2022). Excess mortality associated with COVID-19 for renters threatened with eviction.

**Graetz, N.**, et al. (2022). Demographics of eviction in the United States.

Boen, C., **Graetz, N.**, Venkataramani, A., Peele, M., Ortiz, R. (2022). The scars of legal violence.

Boen, C.\*, Schut, R., **Graetz, N.** (2022). The painful and chilling effects of legal violence: Immigration enforcement and racialized legal status inequities in musculoskeletal pain and benefits utilization among U.S. agricultural workers (2002-2018).

**Graetz, N.**, Porter, S. R., Sandler, D. H., Desmond, M. (2022). The role of housing in maintaining the Black-white mortality gap.

**Graetz, N.** (2022). Rent-setting and profiteering in low-income rental markets, 2012-2018.

Rutan, D.Q., **Graetz, N.**, et al. (2022). Retirement insecurity and housing hardship among older Americans, 2005-2018.

## GRANTS & RESEARCH SUPPORT

- 2022-2025 National Institutes of Health (NIH) R01-NR020748. *Examining the Impact of Pandemic Eviction Prevention Policies on Racial Inequalities in Mortality.* \$1.9 million. **Co-Investigator.**
- 2023-2024 U.S. Department of Housing and Urban Development (HUD). *Assistance and Eviction: Evaluating the Impact of ERA on Housing Stability.* \$499,949. **Co-Investigator.**
- 2022-2023 RWJF Healthy Eating Research (HER) Program. *Is the Housing Crisis Preventing Families with Children from Receiving Food Assistance?* \$249,996. **Key Staff.**
- 2021-2022 Environmental Protection Agency (EPA) research contract via the Research Triangle Institute (RTI). *Fusing and Downscaling U.S. Survey Data: Using fusionACS to Support Fine-Scale Analysis and Policymaking.* \$234,000. Role: **Co-Investigator.**

- 2020-2021 New York State Energy Research and Development Authority (NYSERDA) research grant. *Conceptualizing Climate Justice in New York State*. \$50,000. Role: **Research Assistant**.
- 2017-2021 National Institute on Aging R01 AG060115. *Causes of Geographic Divergence in American Mortality Between 1990 and 2015: Health Behaviors, Health Care Access, and Migration*. Irma Elo (PI). Role: **Research Assistant**.
- 2018-2021 Penn Institute on Aging Pilot Awards P30 020-0225-4-672038. *Psychosocial Stress Exposure, Biological Functioning, and Cognitive Change across the Life Course*. Irma Elo (Co-PI), Courtney Boen (Co-PI). Role: **Research Assistant**.
- 2019-2020 University of Pennsylvania Quartet Pilot Research Project. *Whole Community Climate Mapping*. \$20,000. Role: **Research Assistant**.
- 2017-2021 NICHD Training Grant T32 HD-007242-36A1. Michel Guillot (PI). Role: **Graduate Student**.

## CONFERENCE PRESENTATIONS (\* = presenter)

### PAA (Population Association of America) Annual Meeting

**Graetz, N.\***, Esposito, M.H. (2022). Historical redlining and contemporary racial disparities in neighborhood life expectancy. *Racism, Social Justice, and Health and Mortality*.

**Graetz, N.\***, Gershenson, C., Lemmerman, E., Desmond, M. (2022). Eviction and all-cause mortality in the United States, 2000-2021: Patterns by age, race, and sex. *Understudied Contributors to Racial/Ethnic Inequalities in Health and Mortality*.

Schut, R.\*, Boen, C., **Graetz, N.** (2022). Racial-ethnic, nativity, and legal status disparities in health and health care: The role of local immigration enforcement. *Immigration Policy and Enforcement Climates: Micro- and Macro-level Perspectives*.

**Graetz, N.\*** (2021). Historical mechanisms connecting home values over three generations to contemporary Black-white disparities in wealth and health. *Intergenerational Transmission of Poverty and Human Capital*.

**Graetz, N.\***, Song, X. (2021). G-computation for decomposing population health disparities: 3-way effect decomposition with a new R package multmed. *Debate and Innovation in Global Population and Health Methods and Metrics*.

Boen, C.\*, **Graetz, N.**, et al. (2021). The roles of state and local immigration policy in shaping spatial and age patterns of health inequality. *Immigrant and Immigration Policy: Changes and Effects*.

Boen, C.\*, **Graetz, N.**, et al. (2021). Early life patterns of criminal justice involvement: Inequalities by race-ethnicity, gender, and socioeconomic status. *The Collateral Consequences of Punishment*.

**Graetz, N.\*** (2019). The direct and indirect psychosocial consequences of neighborhood disadvantage on cognitive development: A novel application of the parametric g-formula. *Neighborhood Influences on Children and Youth*.

**Graetz, N.\***, Elo, I. (2019). The role of changing socioeconomic conditions, healthcare, and health

behaviors in U.S. county-level mortality trends, 2000-2015. *Spatial Distribution of Diseases and Deaths*.

**Graetz, N.**, Woyczynski, L.\* (2019). Local variation in educational attainment in low- and middle-income countries, 2000-2017. *Education Outcomes in Low- and Middle-Income Countries*.

Friedman, J.\*, **Graetz, N.**, et al. (2018). Measuring the distribution of education: Global trends, forecasts, and inequality metrics. *Global Trends in Educational Stratification*.

**Graetz, N.**\*, et al. (2017). Measuring the geographic distribution of maternal education in Africa. *Sustainable Development Goals and Demography*.

### **ASA (American Sociological Association) Annual Meeting**

Boen, C.\*, Schut, R., **Graetz, N.** (2022). County-level immigration enforcement and racialized legal status inequities in health. *Population Processes in Turbulent Times*.

**Graetz, N.**\* (2021). Cohort variation in the life course mechanisms producing Black-white wealth gaps, 1968-2017. *New Approaches to Understanding and Addressing Inequality*.

Boen, C.\*, **Graetz, N.**, et al. (2021). The roles of state and local immigration policy in shaping spatial and age patterns of health inequality. *Social Processes, Aging, and Health*.

Boen, C.\*, **Graetz, N.**, et al. (2021). Early life patterns of criminal justice involvement: Inequalities by race-ethnicity, gender, and socioeconomic status. *Aging and the Life Course at a Time of Multiple Crises*.

**Graetz, N.**\*, Boen, C. (2020). Racism and causal inference: Identifying the life course determinants of racial disparities in adult cardiometabolic risk. *Expanding Diversity of Biosocial Research: Opportunities and Challenges*.

**Graetz, N.**\*, Elo, I. (2019). The role of changing socioeconomic conditions, healthcare, and health behaviors in U.S. county-level mortality trends, 2000-2015. *Mortality and Morbidity*.

### **IAPHS (Interdisciplinary Association of Population Health Science) Annual Conference**

**Graetz, N.**\*, Esposito, M. (2021). Historical redlining and contemporary racial disparities in neighborhood life expectancy.

Boen, C.\*, **Graetz, N.**, Venkataramani, A., Peele, M., Ortiz, R. (2020). The roles of state and local immigration policy in shaping population patterns of health inequality.

### **PHS (Population Health Sciences) Annual Workshop**

**Graetz, N.**\* (2019). Identifying early-life leverage points for change: A longitudinal decomposition of Black-White adult health disparities using the parametric g-formula.

### **INVITED PRESENTATIONS**

*The impacts of rent burden and eviction on all-cause mortality in the United States*. Federal Committee on Statistical Methodology (FCSM) 2022 Research & Planning Conference. October 25, 2022.

*Rent burden, eviction, and the production of premature death in the United States: Linking eviction court records to administrative mortality data*. Berkeley CenSoc Record Linkage and Administrative Data Session. April 28, 2022.

*Structural racism and quantitative causal inference*. Michigan IHPI Clinician Scholars Program (CSP) seminar. March 16, 2022.

*American Eco-Apartheid: Mapping racial disparities in longevity driven by political economy, state violence, and environmental exposure*. Berkeley Demography Brown Bag. March 16, 2022.

*Structural racism and quantitative causal inference*. University of Wisconsin Race and Ethnicity Workshop and Demography Training Seminar. February 16, 2022.

*Closing the racial wealth and health gaps – Where to start?* The New York Fed Community Development Unit and the New York City Department of Health and Mental Hygiene virtual roundtable. February 10, 2022.

*Comments on Entwisle (2007): Putting people into place*. Population Association of America webinar: “PAA Presidential Address Topics: Where Are They Now?” December 8, 2020.

## REPORTS AND POLICY BRIEFS

Michael Esposito, **Nick Graetz**, Margaret Hicken, Hedwig Lee (2022). The past, present, and future of racial health disparities in the U.S. *Lipman Inequality Project*.

Johanna Bozuwa, Thea Riofrancos, Sarah Knuth, Patrick Robbins, Suzy Baker, A.L. McCullough, Kira McDonald, Chelsea Mackin, Daniel Aldana Cohen, Billy Fleming, **Nick Graetz**, and Neilay Shah (2021). A New Era of Public Power: A vision for New York Power Authority in pursuit of climate justice. *climate + community project*.

Daniel Aldana Cohen, Rachel Mulbry, A.L. McCullough, Kira McDonald, **Nick Graetz**, Billy Fleming (2021). A Green New Deal for public housing to deliver racial, economic, and climate justice. *climate + community project*.

Suzy Baker, Johanna Bozuwa, Daniel Aldana Cohen, **Nick Graetz**, Sarah Knuth, Chelsea Mackin, A.L. McCullough, Thea Riofrancos, Patrick Robbins, Neilay Shah (2021). A new era of public power: A vision for New York Power Authority (NYPA) in pursuit of climate justice. *climate + community project (prepared for the New York Power Authority)*.

Akira Drake Rodriguez, Daniel Aldana Cohen, Kira McDonald, **Nick Graetz**, Erika Kitzmiller, Billy Fleming (2021). Green Stimulus for K-12 Schools. *climate + community project (prepared for the Office of Congressman Jamaal Bowman)*.

Daniel Aldana Cohen, J. Mijin Cha, **Nick Graetz**, and Raka Sen (2021). Securing Climate Justice Investments in New York’s Climate Leadership and Community Protection Act. *Socio-Spatial Climate Collaborative (prepared for the New York State Energy Research and Development Authority)*.

**Nick Graetz** (2020). COVID-19 in Philadelphia. *Socio-Spatial Climate Collaborative (prepared for the Office of Senator Nikil Saval)*.

Steven Highside, Billy Fleming, Hayley Richardson, Emily Mangan, Scott Goldstein, Ben Fried, Ashley Pryce, Natalee Rivera, Daniel Aldana Cohen, Xan Lillehei, Katie Lample, **Nick Graetz**, Julian Brave NoiseCat (2020). A Green New Deal for City and Suburban Transportation. *Data for Progress*.

Billy Fleming, Daniel Aldana Cohen, Nick Graetz, Katie Lample, Alexandra Lillehei, Kira McDonald, Julian Brave NoiseCat, Mark Paul (2019). Public Housing at Risk: Adaptation through a Green New Deal. *Data for Progress*.

Daniel Aldana Cohen, Billy Fleming, Kira McDonald, Julian Brave NoiseCat, Nick Graetz, Katie Lample, Alexandra Lillehei, Mark Paul, Anunya Bahanda (2019). A Green New Deal for American Public Housing Communities. *Data for Progress*.

Daniel Aldana Cohen, Billy Fleming, Kira McDonald, Nick Graetz, Mark Paul, Alexandra Lillehei, Katie Lample, Julian Brave NoiseCat (2019). A Green New Deal for New York City Housing Authority (NYCHA) Communities. *Data for Progress*.

## TEACHING

### Courses

*Panel Data Analysis*. Fall 2020 (Teaching Assistant). Graduate course in sociology covering statistical principles and methods in R for longitudinal data analysis, including random- and fixed-effects models, multilevel models, difference-in-difference models, covariance pattern models, survival analysis, and event history analysis.

### Workshops

*Introduction to G-Methods for Observational Causal Inference*. Feb 2020. Two-part workshop given at the Penn Population Studies Center focused on methods for counterfactual causal inference in the presence of time-varying confounding (marginal structural models, parametric g-formula).

*Introduction to R*. June 2019. Two-part workshop given at the Penn Population Studies Center focused on basics of the R programming language: data management (manipulation, cleaning), control flow, functions, generalized linear models, and visualization.

*Data visualization in R*. 2015-2017. Ongoing workshop for data analysts, researchers, and post-docs at the Institute for Health Metrics and Evaluation focused on *ggplot*, *leaflet*, and interactive applications in R-Shiny.

*Spatial statistics in R*. 2015-2017. Ongoing workshop for data analysts, researchers, and post-docs at the Institute for Health Metrics and Evaluation focused on residual analysis, spatial autocorrelation and space-time modelling using R-INLA.

*Introduction to R*. 2015-2017. Ongoing workshop for new data analysts, researchers, and post-docs at the Institute for Health Metrics and Evaluation focused on basics of the R programming language: data management (manipulation, cleaning), control flow, functions, generalized linear models, and visualization.

## PROFESSIONAL SERVICE AND MEMBERSHIP

Reviewer

*American Sociological Review, Social Forces, Journal of Health and Social Behavior, Sociological Methodology, City & Community, Research on Social Stratification and Mobility, Population Research and Policy Review, Social Science & Medicine: Population Health, Epidemiologic Methods, BioMed Central: Public Health, Humanities and Social Sciences Communications, Journal of Racial and Ethnic Health Disparities*

#### Member

Population Association of America, 2016-Present.

American Sociological Association, 2018-Present.

Interdisciplinary Association of Population Health Science, 2020-Present.

Special Sworn Status, US Census Bureau, 2019-Present.

TRAC Fellow, 2020-Present.

#### AWARDS AND FELLOWSHIPS

Institute for Health Metrics and Evaluation (IHME) Post-Bachelor Fellowship, 2013-2016.

University of Wisconsin – Madison Summer Internship Scholarship, 2012.

#### OTHER PEER-REVIEWED PUBLICATIONS

Friedman, J. et al. (2019). Structural vulnerability to narcotics-driven firearm violence: An ethnographic and epidemiological study of Philadelphia's Puerto Rican inner-city. *PLoS ONE* 14(11).

Burstein, R. et al. (2019). Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. *Nature* 574: 353-358.

Reiner, R., et al. (2019). Identifying residual hotspots and mapping lower respiratory infection morbidity and mortality in Africa children from 2000 to 2017. *Nature Microbiology* 4: 2310-2318.

Mosser, J., Gagne-Maynard, W., Rao, P., Osgood-Zimmerman, A., Fullman, N., **Graetz, N.**, et al. (2019). Mapping diphtheria-pertussis-tetanus vaccine coverage in Africa, 2000-2017: A spatial and temporal modelling study. *The Lancet* 393: 1843-1855.

Osgood-Zimmerman, A., Milllear, R., Stubbs, R., Shields, C., Pickering, B., Earl, L., **Graetz, N.**, et al. (2018). Mapping child growth failure in Africa between 2000 and 2015. *Nature* 555: 41-47.

Golding, N., Burstein, R. et al. (2017). Mapping under-5 and neonatal mortality in Africa, 2000–15: A baseline analysis for the Sustainable Development Goals. *The Lancet* 390: 2171-2182.

Gakidou, E. et al. (2017). Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990-2016: A systematic analysis for the Global Burden of Disease Study 2016. *The Lancet* 390: 1345-1422.

Hay, S.I., et al. (2017). Global, regional, and national disability-adjusted life-years (DALYs) for 333 diseases and injuries and health life expectancy (HALE) for 195 countries and territories, 1990-2016: A systematic analysis for the Global Burden of Disease Study 2016. *The Lancet* 390: 1260-1344.



- Wang, H., et al. (2017). Global, regional, and national under-5 mortality, adult mortality, age-specific mortality, and life expectancy, 1970–2016: A systematic analysis for the Global Burden of Disease Study 2016. *The Lancet* 390, 1084-1150.
- Barber, R., et al. (2017). Healthcare access and quality index based on mortality from causes amenable to personal health care in 195 countries and territories, 1990–2015: A novel analysis from the Global Burden of Disease Study 2015. *The Lancet* 390, 231-266.
- Vos, T. et al. (2016). Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990–2015: A systematic analysis for the Global Burden of Disease Study 2015. *The Lancet* 388: 1545-1602.
- Kassebaum, N. et al. (2016). Global, regional, and national levels of maternal mortality, 1990–2015: A systematic analysis for the Global Burden of Disease Study 2015. *The Lancet* 388: 1775-1812.
- Kassebaum, N. et al. (2016). Global, regional, and national disability-adjusted life-years (DALYs) for 315 diseases and injuries and health life expectancy (HALE), 1990–2015: A systematic analysis for the Global Burden of Disease Study 2015. *The Lancet* 388: 1603-1658.
- Lim, S. et al. (2016). Measuring the health-related Sustainable Development Goals in 188 countries: A baseline analysis from the Global Burden of Disease Study 2015. *The Lancet* 388: 1813-1850.
- Morris, J., et al. (2016). Health metrics priorities in the SDG era and beyond: A perspective from young researchers. *The Lancet* 388: 2353-2354.
- Murray, C., Ortblad, K., Guinovart, C., Lim, S., Wolock, T., Roberts, A., Dansereau, E., **Graetz, N.**, et al. (2014). Global, regional, and national incidence and mortality for HIV, tuberculosis, and malaria during 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 384: 1005-1070.
- Ng, M., Fleming, T., Robinson, M., Thomson, B., **Graetz, N.**, et al. (2014). Global, regional, and national prevalence of overweight and obesity in children and adults during 1980–2013: A systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 384: 766-781.
- Naghavi, M. et al. (2015). Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 385: 117-171.
- Vos, T. et al. (2015). Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990–2013: A systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* 386: 743-800.
- Murray, C. et al. (2015). Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990–2013: Quantifying the epidemiological transition. *The Lancet* 386: 2145-2191.
- Hmwe, K. et al. (2016). Global and national burden of diseases and injuries among children and adolescents between 1990–2013: Findings from the Global Burden of Disease 2013 Study. *JAMA Pediatrics* 170: 267-287.
- Forscher, P.S., Cox, W.T., **Graetz, N.**, Devine, P.G. (2015). The motivation to express prejudice. *Journal of Personality and Social Psychology*. 109: 791-812.