

# Curriculum Vitae: updated October 26, 2023

## I. IDENTIFYING DATA

Name Marissa B. Reitsma, BS  
Current Position PhD Candidate, Department of Health Policy  
Current Affiliation Stanford University

## II. EDUCATION HISTORY

### Colleges and Universities Attended

2019 - present PhD Candidate, Health Policy (Decision Science), Stanford University  
(*expected June 2024*) Stanford, CA  
*Knight-Hennessy Scholar, Data Science Scholar, NSF Graduate Research Fellow*

2010 – 2014 BS, Biology (Immunology), Brown University, Providence, RI  
*Honors, Magna Cum Laude*

### Fellowship Training

2023 Stanford Impact Labs PhD Fellowship, Stanford University, Stanford, CA

2014 – 2016 Post-Bachelor Fellowship, Institute for Health Metrics and Evaluation,  
University of Washington, Seattle, WA

## III. EMPLOYMENT

### Other Appointments:

2016 – present Research Scientist, Institute for Health Metrics and Evaluation, University  
of Washington, Seattle, WA (part-time affiliate since 2019)

2012 – 2014 Research Assistant, Center for AIDS Research, Brown University,  
Providence, RI

## IV. HONORS AND AWARDS

2023 Lee B. Lusted Student Award (Quantitative Methods and Theoretical Developments),  
Society for Medical Decision Making

2023 Women in Data Science Award, Stanford Data Science Conference

2023 Spotlight Award for Simulated Data, Stanford Data Science Conference

2021 – 2024 NSF Graduate Research Fellowship, National Science Foundation

2021 – 2023 Data Science Scholar, Stanford University

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|-------------|---|
| 2021        | Lee B. Lusted Student Award (Health Services, Outcomes, and Policy Research), Society for Medical Decision Making |
| 2019 – 2022 | Knight-Hennessy Scholar, Stanford University  |
| 2019        | Community Builder Award, Institute for Health Metrics and Evaluation  |
| 2018        | Jeremiah and Rose Stamler Research Award for New Investigators, American Heart Association                        |
| 2013 – 2014 | Brown International Scholars Program Fellowship, Brown University   |
| 2013        | Laura W. Bush Traveling Fellowship, US Department of State and UNESCO   |
| 2012        | Undergraduate Teaching and Research Award, Brown University   |

## V. BIBLIOGRAPHY

### Peer-reviewed original research (57 total, 29 as part of a collaborative network)

^ Trainee Author

1. **Reitsma MB**, Rose S, Reinhart A, Goldhaber-Fiebert JD, Salomon JA. Bias-adjusted predictions of county-level vaccination coverage from the COVID-19 Trends and Impact Survey. *Medical Decision Making* (in press, 2023).
2. Stein DT, **Reitsma MB**, Geldsetzer P, Agoudavi K, Aryal KK, Bahendeka S, Brant LCC, Farzadfar F, Gurung MS, Guwatudde D, Houehanou YCN, Malta DC, Martins JS, Moghaddam SS, Mwangi KJ, Norov B, Sturua L, Tsabedze L, Zhumadilov Z, Bärnighausen T, Davies JI, Flood D, Marcus ME, Theilmann M, Vollmer S, Manne-Goehler J, Atun R, Sudharsanan N, Verguet S. Improving hypertension care cascades and reducing cardiovascular disease inequities: a modelling study based on nationally representative surveys from 44 low- and middle-income countries. *Nature Medicine* (in press, 2023).
3. **Reitsma MB**, Dusetzina SB, Ballreich JM, Trujillo AJ, Mello MM. Examining Opportunities to Increase Savings From Medicare Price Negotiations. *JAMA Intern Med.* **183**, 581–588 (2023).
4. Fullman N, Cowling K, Flor LS, Wilson S, Bhatt P, Bryant MF, Camarda JN, Colombara DV, Daly J, Gabert RK, Harris KP, Johanns CK, Mandile C, Marshall S, McNellan CR, Mulakaluri V, Phillips BK, **Reitsma MB**, Sadighi N, Tamene T, Thomson B, Wollum A, Gakidou E. Assessing the impact of community-based interventions on hypertension and diabetes management in three Minnesota communities: Findings from the prospective evaluation of US HealthRise programs. *PLoS One.* **18**, e0279230 (2023).
5. Zheng P, Afshin A, Biryukov S, Bisignano C, Brauer M, Bryazka D, Burkart K, Cercy KM, Cornaby L, Dai X, Dirac MA, Estep K, Fay KA, Feldman R, Ferrari AJ, Gakidou E, Gil GF, Griswold M, Hay SI, He J, Irvine CMS, Kassebaum NJ, LeGrand KE, Lescinsky H, Lim SS, Lo J, Mullany EC, Ong KL, Rao PC, Razo C, **Reitsma MB**, Roth GA, Santomauro DF, Sorensen RJD, Srinivasan V, Stanaway JD, Vollset SE, Vos T, Wang N, Welgan CA, Wozniak SS, Aravkin AY, Murray CJL. The Burden of Proof studies: assessing the evidence of risk. *Nat Med.* **28**, 2038–2044 (2022).
6. Dai X, Gil GF, **Reitsma MB**, Ahmad NS, Anderson JA, Bisignano C, Carr S, Feldman R, Hay SI, He J, Iannucci V, Lawlor HR, Malloy MJ, Marczak LB, McLaughlin SA, Morikawa L, Mullany EC, Nicholson SI, O’Connell EM, Okereke C, Sorensen RJD, Whisnant J, Aravkin AY, Zheng P,

Murray CJL, Gakidou E. Health effects associated with smoking: a Burden of Proof study. *Nat Med.* **28**, 2045–2055 (2022).

7. Bryazka D<sup>^</sup>, **Reitsma MB**, Griswold MG, GBD 2020 Alcohol Collaborators, Gakidou E. Population-level risks of alcohol consumption by amount, geography, age, sex, and year: a systematic analysis for the Global Burden of Disease Study 2020. *Lancet.* **400**, 185–235 (2022).
  8. Salomon JA, Reinhart A, Bilinski A, Chua EJ, La Motte-Kerr W, Rönn MM, **Reitsma MB**, Morris KA, LaRocca S, Farag TH, Kreuter F, Rosenfeld R, Tibshirani RJ. The US COVID-19 Trends and Impact Survey: Continuous real-time measurement of COVID-19 symptoms, risks, protective behaviors, testing, and vaccination. *Proc Natl Acad Sci USA.* **118** (2021).
  9. Alarid-Escudero F, Gracia V, Luviano A, Roa J, Peralta Y, **Reitsma MB**, Claypool AL, Salomon JA, Studdert DM, Andrews JR, Goldhaber-Fiebert JD. Dependence of COVID-19 Policies on End-of-Year Holiday Contacts in Mexico City Metropolitan Area: A Modeling Study. *MDM Policy Pract.* **6**, 23814683211049249 (2021).
  10. **Reitsma MB**, Goldhaber-Fiebert JD, Salomon JA, Quantifying and Benchmarking Disparities in COVID-19 Vaccination Rates by Race and Ethnicity. *JAMA Netw Open.* **4**, e2130343 (2021).
  11. Kendrick PJ<sup>^</sup>, **Reitsma MB**, GBD 2019 Tobacco Collaborators, Gakidou E. Spatial, temporal, and demographic patterns in prevalence of chewing tobacco use in 204 countries and territories, 1990-2019: a systematic analysis from the Global Burden of Disease Study 2019. *Lancet Public Health.* **6**, e482–e499 (2021).
  12. **Reitsma MB**, Flor LS, Mullany EC, Gupta V, Hay SI, Gakidou E. Spatial, temporal, and demographic patterns in prevalence of smoking tobacco use and initiation among young people in 204 countries and territories, 1990-2019. *Lancet Public Health.* **6**, e472–e481 (2021).
  13. **Reitsma MB**, Kendrick PJ<sup>^</sup>, GBD 2019 Tobacco Collaborators, Gakidou E. Spatial, temporal, and demographic patterns in prevalence of smoking tobacco use and attributable disease burden in 204 countries and territories, 1990-2019: a systematic analysis from the Global Burden of Disease Study 2019. *Lancet.* **397**, 2337–2360 (2021).
  14. **Reitsma MB\***, Claypool AL\*, Vargo J, Shete PB, McCorvie R, Wheeler WH, Rocha DA, Myers JF, Murray EL, Bregman B, Dominguez DM, Nguyen AD, Porse C, Fritz CL, Jain S, Watt JP, Salomon JA, Goldhaber-Fiebert JD. Racial/Ethnic Disparities In COVID-19 Exposure Risk, Testing, And Cases At The Subcounty Level In California. *Health Aff (Millwood).* **40**, 870–878 (2021).
- \*Co-first author
15. **Reitsma MB**, Salomon JA, Goldhaber-Fiebert JD. Mapping Inequality in SARS-CoV-2 Household Exposure and Transmission Risk in the USA. *J Gen Intern Med.* **36**, 1476–1478 (2021).
  16. Flor LS, **Reitsma MB**, Gupta V, Ng M, Gakidou E. The effects of tobacco control policies on global smoking prevalence. *Nat Med.* **27**, 239–243 (2021).
  17. Roth GA, Mensah GA, Johnson CO, Addolorato G, Ammirati E, Baddour LM, Barengo NC, Beaton AZ, Benjamin EJ, Benziger CP, Bonny A, Brauer M, Brodmann M, Cahill TJ, Carapetis J, Catapano AL, Chugh SS, Cooper LT, Coresh J, Criqui M, DeCleene N, Eagle KA, Emmons-Bell S, Feigin VL, Fernández-Solà J, Fowkes G, Gakidou E, Grundy SM, He FJ, Howard G, Hu F, Inker L, Karthikeyan G, Kassebaum N, Koroshetz W, Lavie C, Lloyd-Jones D, Lu HS, Mirijello A, Temesgen AM, Mokdad A, Moran AE, Muntner P, Narula J, Neal B, Ntsekhe M, Moraes de Oliveira G, Otto C, Owolabi M, Pratt M, Rajagopalan S, **Reitsma MB**, Ribeiro ALP, Rigotti N, Rodgers A, Sable C, Shakil S, Sliwa-Hahnle K, Stark B, Sundström J, Timpel P, Tleyjeh IM, Valgimigli M, Vos T, Whelton PK, Yacoub M, Zuhlke L, Murray C, Fuster V. Global Burden of

Cardiovascular Diseases and Risk Factors, 1990-2019: Update From the GBD 2019 Study. *J Am Coll Cardiol.* **76**, 2982–3021 (2020).

18. Malta DC, Flor LS, Machado ÍE, Felisbino-Mendes MS, Brant LCC, Ribeiro ALP, Teixeira RA, Macário EM, **Reitsma MB**, Glenn S, Naghavi M, Gakidou E. Trends in prevalence and mortality burden attributable to smoking, Brazil and federated units, 1990 and 2017. *Popul Health Metr.* **18**, 24 (2020).
19. **Reitsma MB**, Kendrick PJ<sup>^</sup>, Anderson J, Arian N, Feldman R, Gakidou E, Gupta V. Reexamining Rates of Decline in Lung Cancer Risk after Smoking Cessation. A Meta-analysis. *Ann Am Thorac Soc.* **17**, 1126–1132 (2020).
20. Flor LS, Wilson S, Bhatt P, Bryant M, Burnett A, Camarda JN, Chakravarthy V, Chandrashekhar C, Chaudhury N, Cimini C, Colombara DV, Narayanan HC, Cortes ML, Cowling K, Daly J, Duber H, Ellath Kavinkare V, Endlich P, Fullman N, Gabert R, Glucksman T, Harris KP, Loguercio Bouskela MA, Maia J, Mandile C, Marcolino MS, Marshall S, McNellan CR, Medeiros DS de, Mistro S, Mulakaluri V, Murphree J, Ng M, Oliveira JAQ, Oliveira MG, Phillips B, Pinto V, Polzer Ngwato T, Radant T, **Reitsma MB**, Ribeiro AL, Roth G, Rumel D, Sethi G, Soares DA, Tamene T, Thomson B, Tomar H, Ugliara Barone MT, Valsangkar S, Wollum A, Gakidou E. Community-based interventions for detection and management of diabetes and hypertension in underserved communities: a mixed-methods evaluation in Brazil, India, South Africa and the USA. *BMJ Glob Health.* **5** (2020).
21. Kantor R, DeLong A, Schreier L, **Reitsma MB**, Kemboi E, Orido M, Obonge S, Boinett R, Rono M, Emonyi W, Brooks K, Coetzer M, Buziba N, Hogan J, Diero L. HIV-1 second-line failure and drug resistance at high-level and low-level viremia in Western Kenya. *AIDS.* **32**, 2485–2496 (2018).
22. Foreman KJ, Marquez N, Dolgert A, Fukutaki K, Fullman N, McGaughey M, Pletcher MA, Smith AE, Tang K, Yuan C-W, Brown JC, Friedman J, He J, Heuton KR, Holmberg M, Patel DJ, Reidy P, Carter A, Cercy K, Chapin A, Douwes-Schultz D, Frank T, Goettsch F, Liu PY, Nandakumar V, **Reitsma MB**, Reuter V, Sadat N, Sorensen RJD, Srinivasan V, Updike RL, York H, Lopez AD, Lozano R, Lim SS, Mokdad AH, Vollset SE, Murray CJL. Forecasting life expectancy, years of life lost, and all-cause and cause-specific mortality for 250 causes of death: reference and alternative scenarios for 2016-40 for 195 countries and territories. *Lancet.* **392**, 2052–2090 (2018).
23. Gabert R, Ng M, Sogarwal R, Bryant M, Deepu RV, McNellan CR, Mehra S, Phillips B, **Reitsma MB**, Thomson B, Wilson S, Wollum A, Gakidou E, Duber HC. Identifying gaps in the continuum of care for hypertension and diabetes in two Indian communities. *BMC Health Serv Res.* **17**, 846 (2017).
24. Afshin A, Forouzanfar MH, **Reitsma MB**, Sur P, Estep K, Lee A, Marczak L, Mokdad AH, Moradi-Lakeh M, Naghavi M, Salama JS, Vos T, GBD 2015 Obesity Collaborators, Murray CJL. Health Effects of Overweight and Obesity in 195 Countries over 25 Years. *N Engl J Med.* **377**, 13–27 (2017).
25. **Reitsma MB**, Fullman N, Ng M, Salama JS, GBD 2015 Tobacco Collaborators, Murray CJL, Forouzanfar MH, Gakidou E. Smoking prevalence and attributable disease burden in 195 countries and territories, 1990-2015: a systematic analysis from the Global Burden of Disease Study 2015. *Lancet.* **389**, 1885–1906 (2017).
26. Brooks K, Diero L, DeLong A, Balamane M, **Reitsma MB**, Kemboi E, Orido M, Emonyi W, Coetzer M, Hogan J, Kantor R. Treatment failure and drug resistance in HIV-positive patients on tenofovir-based first-line antiretroviral therapy in western Kenya. *J Int AIDS Soc.* **19**, 20798 (2016).

27. Kantor R, Smeaton L, Vardhanabhuti S, Hudelson SE, Wallis CL, Tripathy S, Morgado MG, Saravanan S, Balakrishnan P, **Reitsma MB**, Hart S, Mellors JW, Halvas E, Grinsztejn B, Hosseinipour MC, Kumwenda J, La Rosa A, Lalloo UG, Lama JR, Rassoool M, Santos BR, Supparatpinyo K, Hakim J, Flanigan T, Kumarasamy N, Campbell TB, Eshleman SH. Pretreatment HIV Drug Resistance and HIV-1 Subtype C Are Independently Associated With Virologic Failure: Results From the Multinational PEARLS (ACTG A5175) Clinical Trial. *Clin Infect Dis*. **60**, 1541–1549 (2015).
28. Chan PA, **Reitsma MB**, DeLong A, Boucek B, Nunn A, Salemi M, Kantor R. Phylogenetic and geospatial evaluation of HIV-1 subtype diversity at the largest HIV center in Rhode Island. *Infect Genet Evol*. **28**, 358–366 (2014).

### Peer-reviewed publications (as part of a collaborative network)

Summary of contributions to the Global Burden of Disease (GBD) study, by GBD cycle:

- GBD 2019: Led estimation of drug use, smoking, chewing tobacco, and alcohol use risk factors. Led estimation of deaths and years lived with disability due to drug use and alcohol use disorder.
  - GBD 2017: Led estimation of smoking (developed new estimation framework), chewing tobacco, and secondhand smoke risk factors (developed new estimation framework). Developed and supported shared modeling tools.
  - GBD 2016: Led estimation of smoking, smokeless tobacco (new risk factor), and high body-mass index risk factors (including childhood obesity as a new risk factor). Developed and supported shared modeling tools.
  - GBD 2015: Led estimation of smoking and high body-mass index risk factors. Led estimation of temperature, precipitation, and food consumption covariates.
1. GBD 2019 LRI Collaborators. Age-sex differences in the global burden of lower respiratory infections and risk factors, 1990-2019: results from the Global Burden of Disease Study 2019. *Lancet Infect Dis*. **22**, 1626–1647 (2022).
  2. GBD 2019 Cancer Risk Factors Collaborators. The global burden of cancer attributable to risk factors, 2010-19: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. **400**, 563–591 (2022).
  3. GBD 2019 Tuberculosis Collaborators. Global, regional, and national sex differences in the global burden of tuberculosis by HIV status, 1990-2019: results from the Global Burden of Disease Study 2019. *Lancet Infect Dis*. **22**, 222–241 (2022).
  4. GBD 2019 Stroke Collaborators. Global, regional, and national burden of stroke and its risk factors, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Neurol*. **20**, 795–820 (2021).
  5. GBD 2019 Diseases and Injuries Collaborators. Global burden of 369 diseases and injuries in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. **396**, 1204–1222 (2020).
  6. GBD 2019 Risk Factors Collaborators. Global burden of 87 risk factors in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet*. **396**, 1223–1249 (2020).

7. GBD 2017 Chronic Respiratory Disease Collaborators. Prevalence and attributable health burden of chronic respiratory diseases, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet Respir Med.* **8**, 585–596 (2020).
8. GBD 2017 Lower Respiratory Infections Collaborators. Quantifying risks and interventions that have affected the burden of lower respiratory infections among children younger than 5 years: an analysis for the Global Burden of Disease Study 2017. *Lancet Infect Dis.* **20**, 60–79 (2020).
9. GBD 2017 SDG Collaborators. Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet.* **392**, 2091–2138 (2018).
10. GBD 2017 Disease and Injury Incidence and Prevalence Collaborators. Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet.* **392**, 1789–1858 (2018).
11. GBD 2017 DALYs and HALE Collaborators. Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet.* **392**, 1859–1922 (2018).
12. GBD 2017 Risk Factors Collaborators. Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet.* **392**, 1923–1994 (2018).
13. GBD 2017 Causes of Death Collaborators. Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet.* **392**, 1736–1788 (2018).
14. GBD 2016 Healthcare Access and Quality Collaborators. Measuring performance on the Healthcare Access and Quality Index for 195 countries and territories and selected subnational locations: a systematic analysis from the Global Burden of Disease Study 2016. *Lancet.* **391**, 2236–2271 (2018).
15. GBD Burden of Cardiovascular Diseases Collaboration. The Burden of Cardiovascular Diseases Among US States, 1990-2016. *JAMA Cardiol.* **3**, 375–389 (2018).
16. GBD 2015 Eastern Mediterranean Region Collaborators. Danger ahead: the burden of diseases, injuries, and risk factors in the Eastern Mediterranean Region, 1990-2015. *Int J Public Health.* **63**, 11–23 (2018).
17. GBD 2015 Eastern Mediterranean Region Collaborators. Burden of obesity in the Eastern Mediterranean Region: findings from the Global Burden of Disease 2015 study. *Int J Public Health.* **63**, 165–176 (2018).
18. GBD Tuberculosis Collaborators. The global burden of tuberculosis: results from the Global Burden of Disease Study 2015. *Lancet Infect Dis.* **18**, 261–284 (2018).
19. GBD 2016 SDG Collaborators. Measuring progress and projecting attainment on the basis of past trends of the health-related Sustainable Development Goals in 188 countries: an analysis from the Global Burden of Disease Study 2016. *Lancet.* **390**, 1423–1459 (2017).
20. GBD 2016 Disease and Injury Incidence and Prevalence Collaborators. Global, regional, and national incidence, prevalence, and years lived with disability for 328 diseases and injuries for 195

countries, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet*. **390**, 1211–1259 (2017).

21. GBD 2016 DALYs and HALE Collaborators. Global, regional, and national disability-adjusted life-years (DALYs) for 333 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet*. **390**, 1260–1344 (2017).
22. GBD 2016 Risk Factors Collaborators. 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. *Lancet*. **390**, 1345–1422 (2017).
23. GBD 2016 Causes of Death Collaborators. Global, regional, and national age-sex specific mortality for 264 causes of death, 1980-2016: a systematic analysis for the Global Burden of Disease Study 2016. *Lancet*. **390**, 1151–1210 (2017).
24. GBD 2015 Healthcare Access and Quality Collaborators. 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. *Lancet*. **390**, 231–266 (2017).
25. GBD 2015 SDG Collaborators. Measuring the health-related Sustainable Development Goals in 188 countries: a baseline analysis from the Global Burden of Disease Study 2015. *Lancet*. **388**, 1813–1850 (2016).
26. GBD 2015 Mortality and Causes of Death Collaborators. Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet*. **388**, 1459–1544 (2016).
27. GBD 2015 Disease and Injury Incidence and Prevalence Collaborators. 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. *Lancet*. **388**, 1545–1602 (2016).
28. GBD 2015 DALYs and HALE Collaborators. Global, regional, and national disability-adjusted life-years (DALYs) for 315 diseases and injuries and healthy life expectancy (HALE), 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet*. **388**, 1603–1658 (2016).
29. GBD 2015 Risk Factors Collaborators. Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. *Lancet*. **388**, 1659–1724 (2016).

### **Non-Peer-reviewed articles as part of a collaborative network (1 total)**

1. GBD 2019 Viewpoint Collaborators. Five insights from the Global Burden of Disease Study 2019. *Lancet*. **396**, 1135–1159 (2020).

### **Abstracts (20 total) ^Trainee Author**

1. **Reitsma MB**, Goldhaber-Fiebert JD, Salomon JA. Common Random Numbers for Stochastic Network-Based Transmission Dynamic Models. Society for Medical Decision Making Annual Meeting, Philadelphia, PA 2023.

2. Bryazka D<sup>^</sup>, **Reitsma MB**, Emil Vollset S, Gakidou E. Forecasting smoking deaths to 2050: a forecasting analysis for the global burden of disease study. World Congress on Public Health. Rome, Italy, 2023.
3. **Reitsma MB**, Rose S, Reinhart A, Goldhaber-Fiebert JD, Salomon JA. Bias-adjusted predictions of county-level vaccination coverage from the US COVID-19 Trends and Impact Survey. Society for Medical Decision Making Annual Meeting, Seattle, WA 2022.
4. **Reitsma MB**, Rose S, Reinhart A, Goldhaber-Fiebert JD, Salomon JA. Improving the validity and utility of local estimates of COVID-19 vaccination intentions using high- resolution survey data and predictive modeling. Society for Medical Decision Making Annual Meeting. Virtual, 2021.
5. **Reitsma MB**, Claypool A, Goldhaber-Fiebert JD, Salomon JA. Impact of age-based prioritization of COVID-19 vaccination on racial/ethnic disparities in mortality due to COVID-19 in the United States. Society for Medical Decision Making Annual Meeting. Virtual, 2021.
6. Bryazka D<sup>^</sup>, **Reitsma MB**, Gakidou G. Quantifying the Strength of Evidence of Associations Between Alcohol and Health Outcomes Using a Novel Meta-Regression Approach. Population Association of America. Virtual, 2021.
7. **Reitsma MB**, Alarid-Escudero F, Andrews J, Studdert D, Kunst N, Claypool A, Ryckman T, Goldhaber-Fiebert JD, on behalf of the SC-COSMO Modeling Consortium. Methods for Constructing Sub-National Contact Matrices for Transmission Models of Respiratory Viruses like SARS-CoV-2 (COVID-19). Society for Medical Decision Making Annual Meeting. Virtual, 2020.
8. **Reitsma MB** and Gakidou E, on behalf of GBD Tobacco Collaborators. Updating the Global Burden of Disease Attributable to Smoking Using Direct Estimation Methods - A Systematic Analysis of 195 Countries and 38 Health Outcomes. Society for Research on Nicotine & Tobacco (SRNT) Annual Meeting. Virtual, 2020.
9. **Reitsma MB**, Glucksman T, Wilson S, Gakidou E. Exploring the Feasibility and Utility of Cotinine Biomarkers to Address Underreporting of Tobacco Use - A Pilot Study in Three Cities in Africa. Society for Research on Nicotine & Tobacco (SRNT) Annual Meeting. Virtual, 2020.
10. **Reitsma MB**, Gupta V, Hsiao T<sup>^</sup>, Tymeson H<sup>^</sup>, Arian N, Tapp A, Gakidou E. Large Gaps in Coverage of Effective Policies to Prevent Youth Smoking Initiation: A Systematic Analysis of 195 Countries and Territories. American Heart Association Scientific Sessions. Philadelphia, PA, 2019.
11. WC Paz Ballesteros, L Zavala Arciniega, V Gupta, **MB Reitsma**, E Gakidou, LM Reynales Shigematsu. Trends in Smoking-Attributable Disease Burden Across Mexico from 1990 to 2017: a Subnational Assessment of Cardiovascular and Chronic Respiratory Diseases. CHEST Congress. Bangkok, Thailand, 2019.
12. Hsiao T<sup>^</sup>, **Reitsma MB**, Arian N, Feldman R, Anderson J, Gupta V, Gakidou E. Risk Reduction in Lung Cancer Among Former Smokers: An Analysis from the Global Burden of Disease 2017 Study. The 49th Union World Conference on Lung Health. The Hague, Netherlands, 2018.
13. **Reitsma MB**, Barber R, Roth G, Afshin A. Tracking Lifestyle Behaviors, Healthcare Access, and Healthcare Quality for Cardiometabolic Diseases at the State-Level from 1990-2016. American Heart Association Epi Lifestyle. New Orleans, LA, 2018.
14. **Reitsma MB** and Afshin A on behalf of GBD 2015 Obesity Collaborators. The Impact of Excess Body Weight on Cardiovascular Disease Mortality From 1990 to 2015 and Drivers of Change at the State-Level in the United States. American Heart Association Epi Lifestyle. Portland, OR, 2017.



15. R Gabert, A Wollum, A Nyembezi, Z Petersen, B Phillips, **MB Reitsma**, S Wilson, G Roth, H Duber, J Daly, M Ng, P Reddy, P Naidoo, E Gakidou. The need for integrated chronic care in South Africa: preliminary lessons from the HealthRise program. International AIDS Conference. Durban, South Africa, 2016.
16. K Brooks, L Diero, A DeLong, M Balamane, **MB Reitsma**, E Kemboi, M Orido, M Coetzer, J Hogan, R Kantor. Viral Failure and High K65R in Kenyan Patients on Tenofovir-Based 1st-Line Therapy. Conference on Retroviruses and Opportunistic Infections (CROI). Seattle, WA, 2015.
17. L Diero, A DeLong, L Schreier, E Kemboi, M Orido, M Rono, **MB Reitsma**, W Emonyi, N Buziba, J Hogan, R Kantor. High HIV Resistance and Mutation Accrual at low Viral Loads upon 2nd-Line Failure in Western Kenya. Conference on Retroviruses and Opportunistic Infections (CROI). Boston, MA, 2014.
18. Chan PA, Huang A, DeLong A, Hogan J, **Reitsma MB**, Salemi M, Kantor R. Investigation of HIV Transmission Dynamics Reveals “Active” Clusters of Men Who Have Sex with Men. Conference on Retroviruses and Opportunistic Infections (CROI). Boston, MA, 2014.
19. Chan PA, Huang A, Salemi M, Prosperi M, **Reitsma MB**, Kantor R. Chronic infections drive HIV transmission networks among high-risk populations. Conference on Retroviruses and Opportunistic Infections (CROI). Atlanta, GA, 2013.
20. Chan PA, Huang A, **Reitsma MB**, Kantor R. Molecular Epidemiology of HIV Transmission Networks in Rhode Island. National Center for AIDS Research (CFAR) Symposium. San Francisco, CA, 2012.

## VI. GRANT FUNDING

### Current:

7/2023 – 6/2024

Funder: Stanford Center for Clinical and Translational Research and Education (Spectrum) (Early Career Pilot Grant)  
 Title: Leveraging Multi-Modal Surveys for Robust Prediction of Health Indicators  
 Role: Co-I (PI: S. Wager)

9/2021 – 6/2024

Funder: National Science Foundation (DGE-1656518)  
 Title: Graduate Research Fellowship Program  
 Role: PI

### Completed:

12/2020 – 6/2021

Funder: Stanford Center for Clinical and Translational Research and Education (Spectrum) (Early Career Pilot Grant)  
 Title: Prioritizing effective interventions to eliminate disparities in COVID-19 outcomes among marginalized populations  
 Role: Co-I (PI: J. Goldhaber-Fiebert)

## **VII. EDITORIAL SERVICE**

### **Ad Hoc Reviewer**

*JAMA Network Open*

*Health Affairs*

*The Lancet Global Health*

*International Journal of Cancer*

*American Journal of Public Health*

*Value in Health*

*BMJ Open*

*Tobacco Control*

*Tobacco Use Insights*

## **VIII. UNIVERSITY ADMINISTRATIVE SERVICE**

- 2021 – present Justice, Equity, Diversity, and Inclusion Committee, Department of Health Policy, Stanford University
- 2020 – 2022 Stanford Biosciences Student Association First Year Mentorship Program, Stanford University
- 2018 – 2019 Staff Feedback and Improvement Group Founder and Leader, Institute for Health Metrics and Evaluation, University of Washington

## **IX. SERVICE TO PROFESSIONAL ORGANIZATIONS**

- 2022 – present Career Development Committee, Society for Medical Decision Making

## **XIII. INVITED PRESENTATIONS**

1. 2023 “Developing a Multiplex Network Model of HIV and HCV Transmission among People Who Inject Drugs.” NCHHSTP Epidemiologic and Economic Modeling Agreement (NEEMA) Annual Meeting, Centers for Disease Control and Prevention, Atlanta, GA
2. 2021 “Strategies to reduce racial/ethnic disparities in the COVID-19 vaccination campaign.” Center for Population Health Sciences Research Seminar, Stanford University, Stanford, CA
3. 2019 “Quantifying the Global Health Impacts of Smoking.” Innovations in Tobacco Control Lecture Series, Johns Hopkins University, Baltimore, MD
4. 2018 “Disease Burden of Smoking in Taiwan and the World: Results from the Global Burden of Disease 2017.” Taiwan Tobacco Control Conference, Taipei, Taiwan
5. 2018 “Enhancing Health Communication Based on Burden of Disease: Air Pollution and Smoking.” Taiwan Tobacco Control Conference, Taipei, Taiwan
6. 2018 “Burden of Disease Attributable to Tobacco Use in the Asia Pacific Region.” Asia Pacific Conference on Tobacco or Health, Bali, Indonesia

7. 2018 “Tobacco Control in Mexico and Latin America.” Instituto Nacional de Salud Publica, Cuernavaca, Mexico
8. 2017 “Comparative Risk Assessment (Panelist).” Global Burden of Disease 20<sup>th</sup> Anniversary Symposium, Seattle, WA

## **IX. TEACHING**

- 2022 Introduction to Decision Sciences  
Advancing Health Equity and Diversity Summer Research Program, Stanford University  
Two-hour guest lecture
- 2022 Descriptive Epidemiology and Global Health  
Advancing Health Equity and Diversity Summer Research Program, Stanford University  
Two-hour guest lecture
- 2022 Spatiotemporal Gaussian Process Regression  
Global Burden of Disease: Methods and Results, University of Washington  
One-hour guest lecture, one-hour Q&A session
- 2021 Graduate Teaching Assistant  
Analysis of Costs, Risks, and Benefits of Health Care, Stanford University  
Hosted two office hours per week for 10 weeks, led two software tutorials, developed homework, managed course administration, and provided feedback on student projects
- 2021 Introduction to Decision Sciences  
Advancing Health Equity and Diversity Summer Research Program, Stanford University  
Two-hour guest lecture
- 2021 Descriptive Epidemiology and Global Health  
Advancing Health Equity and Diversity Summer Research Program, Stanford University  
Two-hour guest lecture
- 2021 Spatiotemporal Gaussian Process Regression  
Global Burden of Disease: Methods and Results, University of Washington  
One-hour guest lecture, one-hour Q&A session
- 2020 Principles for Detecting and Correcting Biases in Data  
Principles for Health Metrics, University of Washington  
One-hour guest lecture
- 2018 Introduction to Research  
Institute for Health Metrics and Evaluation, University of Washington

Lead instructor and developed curriculum, two-week course

- 2018 Smoking: From Data to DALYs  
Global Burden of Disease, University of Washington  
Six hours of lectures
- 2018 Global Burden of Disease Technical Training Workshop  
Institute for Health Metrics and Evaluation, Greece  
Instructor, 10-day workshop, developed curriculum and led course modules on risk factors and a case study on smoking
- 2017 Smoking: From Data to DALYs  
Global Burden of Disease, University of Washington  
Six hours of lectures
- 2017 Global Burden of Disease Technical Training Workshop  
Institute for Health Metrics and Evaluation, Greece  
Instructor, 10-day workshop, developed curriculum and led course modules on risk factors and a case study on smoking
- 2017 Tobacco Use Measurement: Turning Evidence into Action  
Tobacco and Public Health, University of Washington  
One-hour guest lecture
- 2013 Undergraduate Teaching Assistant  
Burden of Disease in Developing Countries, Brown University  
Hosted weekly discussion sections for 15 weeks, supported course administration

## **X. TRAINEES**

Mileati Melese, 2022, Advancing Health Equity and Diversity (AHEaD) Visiting Undergraduate, Stanford University

Stephanie Perez, 2022, Advancing Health Equity and Diversity (AHEaD) Visiting Undergraduate, Stanford University

Marion Santo, 2021, Summer Undergraduate Intern, Stanford University

Allen Huang, 2021, Summer Undergraduate Intern, Stanford University

Dana Bryazka, 2018-2019, MS student and post-bachelor fellow, University of Washington

Parkes Kendrick, 2018-2019, post-bachelor fellow, University of Washington

Thomas Hsiao, 2017-2018, post-bachelor fellow, University of Washington

Hayley Tymeson, 2016-2017, MPH student and post-bachelor fellow, University of Washington