

## Stéphane Verguet

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EDUCATION **University of California, Berkeley, CA, USA**  
PhD, Mechanical Engineering 2008  
MPP, Goldman School of Public Policy 2008  
MS, Mechanical Engineering 2005  
**Ecole Polytechnique, Paris, France**  
Ingénieur Diplômé de l'Ecole Polytechnique 2003

ACADEMIC APPOINTMENTS **Harvard T.H. Chan School of Public Health, Boston, MA, USA**  
*Assistant Professor of Global Health* 2015-  
**University of Washington, Seattle, WA, USA**  
**Department of Global Health**  
*Assistant Professor* 2014-2015  
*Acting Assistant Professor* 2012-2014  
*Senior Fellow* 2011-2012  
**Institute for Health Metrics and Evaluation**  
*Post-Graduate Fellow* 2009-2011

MAJOR VISITING APPOINTMENTS **Sciences Po, Institut d'Etudes Politiques de Paris, France**  
*Visiting Professor* 2014

MAJOR RESEARCH INTERESTS Priority setting and decision science  
Health economics, cost-effectiveness analysis, cost-benefit analysis  
Equity, poverty, financial risk protection  
Health systems performance

**Peer-reviewed publications**

1. Szeri AJ, Park SC, **Verguet S**, Weiss A, Katz DF. A model of transluminal flow of anti-HIV microbicide vehicle: combined elastic squeezing and gravitational sliding. *Physics of Fluids* 2008; 20:083101(10 pages).
2. **Verguet S**, Duan C, Liao A, Berk V, Cate JHD, Majumdar A, Szeri AJ. Mechanisms of liquid-liquid interfaces and mixing enhancement in microscale flows. *Journal of Fluid Mechanics* 2010; 652:207-240.
3. Szeri AJ, Park SC, Tasoglu S, **Verguet S**, Gorham A, Gao Y, Katz DF. Epithelial coating mechanisms by semi-solid materials: application to microbicide gels. *Biophysical Journal* 2010; 98(3)(Suppl 1):604a.
4. **Verguet S**, Young Holt B, Szeri AJ. Increasing the effectiveness of vaginal microbicides: a biophysical framework to rethink behavioral acceptability. *PLoS ONE* 2010; 5(11):e15501(8 pages).
5. **Verguet S**, Walsh JA. Vaginal microbicides save money: a model of cost-effectiveness in South Africa and the USA. *Sexually Transmitted Infections* 2010; 86:212-216.
6. Tasoglu S, Peters JJ, Park SC, **Verguet S**, Katz DF, Szeri AJ. The effects of inhomogeneous boundary dilution on the coating flow of an anti-HIV microbicide vehicle. *Physics of Fluids* 2011; 23:93101-093101-9.
7. Delva W, **Verguet S**, Hargrove JW, Williams BG, Sheneberger R, Stander T, Welter A. Treatment-centred prevention: an integrated biomedical and social approach to HIV prevention. *AIDS* 2011; 25(11):1435-1437.
8. **Verguet S** (co-primary author), Stalcup M. Global health and the demands of the day. *Health, Culture and Society* 2011; 1(1):30-44.
9. **Verguet S**, Jassat W, Hedberg C, Tollman S, Jamison DT, Hofman KJ. Measles control in sub-Saharan Africa: South Africa as a case study. *Vaccine* 2012; 30(9):1594-1560.
10. Stalcup M, **Verguet S**. Mothers and children: designing research toward integrated care for both. *Health, Culture and Society* 2012; 3(1):160-171.
11. Johri M, Sharma JK, Jit M, **Verguet S**. Use of measles supplemental immunization activities (SIAs) as a delivery platform for other maternal and child health interventions: opportunities and challenges. *Vaccine* 2013; 9(18):1259-1263.
12. **Verguet S**, Jassat W, Bertram M, Tollman S, Murray CJL, Jamison DT, Hofman KJ. Supplementary immunization activities (SIAs) in South Africa: comprehensive economic evaluation of an integrated child health delivery platform. *Global Health Action* 2013; 6:20056(7 pages).
13. **Verguet S**. Efficient and equitable HIV prevention: a case study of male circumcision in South Africa. *Cost Effectiveness and Resource Allocation* 2013; 11:1.
14. **Verguet S**, Jamison DT. Performance in rate of decline of adult mortality in the OECD, 1970-2010. *Health Policy* 2013; 109(2):137-142.
15. **Verguet S**, Lim SS, Murray CJL, Gakidou E, Salomon JA. Incorporating loss to follow-up in estimates of survival among HIV-infected individuals in sub-Saharan Africa enrolled in antiretroviral therapy programs. *Journal of Infectious Diseases* 2013; 207(1):72-79.

16. **Verguet S** (co-primary author), Kern E, Yuhas K, Odhiambo FT, Kahn JG, Walson JL. Provision of bednets and water filters to delay HIV-1 progression: cost-effectiveness analysis of a Kenyan multi-site study. *Tropical Medicine and International Health* 2013; 18(8):916-924.
17. **Verguet S**, Jamison DT. Improving life expectancy: how many years behind has the USA fallen? A cross-national comparison among high-income countries from 1958 to 2007. *BMJ Open* 2013; 3:e002814(9 pages).
18. **Verguet S**, Stalcup M, Walsh JA. Where to deploy Pre-Exposure prophylaxis in sub-Saharan Africa? *Sexually Transmitted Infections* 2013; 89:628-634.
19. **Verguet S**, Jassat W, Bertram M, Tollman S, Murray CJL, Jamison DT, Hofman KJ. Impact of supplemental immunization activities (SIAs) on health systems: findings from South Africa. *Journal of Epidemiology and Community Health* 2013; 67:947-952.
20. **Verguet S**, Murphy S, Anderson B, Johansson KA, Glass R, Rheingans R. Public finance of rotavirus vaccination in India and Ethiopia: an extended cost-effectiveness analysis. *Vaccine* 2013; 31(42):4902-4910.
21. Marseille E, Jiwani A, Raut A, **Verguet S**, Walson JL, Kahn JG. Scaling up integrated prevention campaigns for global health: costs and cost-effectiveness in 70 countries. *BMJ Open* 2014; 4:e003987(16 pages).
22. Jiwani A, Matheson A, Kahn JG, Garg N, Raut A, **Verguet S**, Marseille E, Walson JL. Integrated disease prevention campaigns: assessing country opportunity for implementation. *BMJ Open* 2014; 4:e004308(11 pages).
23. **Verguet S**, Jamison DT. Estimates of performance in the rate of decline of under-five mortality for 113 low- and middle-income countries, 1970-2010. *Health Policy and Planning* 2014; 29(2):151-163.
24. **Verguet S**, Laxminarayan R, Jamison DT. Universal public finance of tuberculosis treatment in India: an extended cost-effectiveness analysis. *Health Economics* 2015; 24(3):318-332.
25. Norheim OF, Jha P, Hum R, Mathers C, Admasu KB, Woldemariam AT, Sepulveda J, Suraweera W, Pan H, **Verguet S**, Yamey G, Kruk M, Godal T, Jamison DT, Peto R. Avoiding 40% of the premature deaths in each country, 2010-30: review of national mortality trends to help quantify the UN Sustainable Development Goal for health. *Lancet* 2015; 385:239-252.
26. **Verguet S**, Norheim OF, Olson ZD, Yamey G, Jamison DT. Performance in reducing child, maternal, HIV and tuberculosis mortality rates across 109 low- and middle-income countries from 1990-2013. *Lancet Global Health* 2014; 2:e698-709.
27. **Verguet S**, Johri M, Morris S, Gauvreau C, Jha P, Jit M. Controlling measles using supplemental immunization activities: a mathematical model to inform optimal policy. *Vaccine* 2015; 33:1291-1296.
28. Watkins DA, Olson ZD, Murphy S, **Verguet S**, Jamison DT, Nugent RA. Cardiovascular disease and impoverishment averted due to a salt reduction policy in South Africa: an extended cost-effectiveness analysis. *Health Policy and Planning* 2016; 31(1):75-82.

29. Levin CE, Sharma M, Olson ZD, **Verguet S**, Jamison DT, Kim J. An extended cost-effectiveness analysis of publicly financed HPV vaccination to prevent cervical cancer in China. *Vaccine* 2015; 33:2830-2841.
30. Meara J, Leather AJ, Hagander L, Alkire BC, Bickler SW, Alonso N, Ameh EA, Conteh L, Dare AJ, Rodas E, Mkandawire N, El-Hlabi S, Green RL, **Verguet S**, Derivois Merisier E, Sullivan R, Yamey G, Lavy C, Weiser TG, Rose J, Kamara TB, Wilson IH, Shrimo MG, Grimes CE, Lundeg G, Gillies R, Farmer PE, Raykar NP, Riesel JN, Yip W, Greenberg SL, Roy N, Ismail EA, Davies J, Gawande A. Global surgery 2030: evidence and solutions for achieving health, welfare, and economic development. *Lancet* 2015; 386:569-624.
31. Mock CN, Donkor P, Gawande A, Jamison DT, Kruk ME, Debas HT. As part of the **DGP3 Essential Surgery Author Group**. Essential surgery: key messages from *Disease Control Priorities*, 3<sup>rd</sup> edition. *Lancet* 2015; 385:2209-2219.
32. **Verguet S**, Olson ZD, Babigumira JB, Desalegn D, Johansson KA, Kruk ME, Levin CE, Nugent RA, Pecenka C, Shrimo MG, Memirie ST, Watkins DA, Jamison DT. Health gains and financial risk protection afforded by public financing of selected interventions in Ethiopia: an extended cost-effectiveness analysis. *Lancet Global Health* 2015; 3:e288-296.
33. **Verguet S**, Gauvreau C, Mishra S, MacLennan M, Murphy S, Brouwer E, Nugent RA, Zhao K, Jha P, Jamison DT. The consequences of tobacco taxation on household health and finances in rich and poor smokers in China: an extended cost-effectiveness analysis. *Lancet Global Health* 2015; 3:e206-216.
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35. **Verguet S**, Alkire BC, Bickler SW, Lauer JA, Uribe-Leitz T, Molina G, Weiser TG, Yamey G, Shrimo MG. Modeling the timing and cost of scaling up surgical services in low- and middle-income countries from 2012 to 2030. *Lancet Global Health* 2015; 3:S28-37.
36. Pecenka C, Johansson KA, Memirie ST, Jamison DT, **Verguet S**. Health gains and financial risk protection in Ethiopia: assessing the benefits of diarrhea treatment and prevention. *BMJ Open* 2015; 5:e006402(8 pages).
37. **Verguet S**, Kahn JG, Marseille E, Jiwani A, Kern E, Walson JL. Cost savings associated with the use of long-lasting insecticide-treated bednets and water filters to delay HIV disease progression in Kenya. *Global Health Action* 2015; 8:27695(8 pages).
38. Driessen JR, Olson ZD, Jamison DT, **Verguet S**. Comparing the health and social protection effects of measles vaccination strategies in Ethiopia: an extended cost-effectiveness analysis. *Social Science and Medicine* 2015; 139:115-122.
39. Uribe-Leitz T, Esquivel MM, Molina G, Lipsitz SR, **Verguet S**, Rose J, Bickler S, Gawande AA, Haynes AB, Weiser TG. Projections for achieving the Lancet Commission recommended surgical rate of 5000 operations per 100,000 population by region-specific surgical rate estimates. *World Journal of Surgery* 2015; 39(9):2168-2172.

40. Patel V, Chisholm D, Parikh R, Charlson FJ, Degenhardt L, Dua T, et al. As part of the **DCP3 MNS Author Group**. Addressing the burden of mental, neurological, and substance use disorders: key messages from *Disease Control Priorities*, 3<sup>rd</sup> edition. *Lancet* 2015; 387:1672-1685.
41. Gelband H, Sankaranarayanan R, Gauvreau CL, Horton S, Anderson BO, et al. As part of the **DCP3 Cancer Author Group**. Costs, affordability, and feasibility of an essential package of cancer control interventions in low-income and middle-income countries: key messages from *Disease Control Priorities*, 3<sup>rd</sup> edition. *Lancet* 2016; 387:2133-2144.
42. Johansson KA, Pecenka C, Tessema Memirie S, Jamison DT, **Verguet S**. Health gains and financial protection from pneumococcal vaccination and pneumonia treatment in Ethiopia: results from an extended cost-effectiveness analysis. *PLoS ONE* 2015; 10(12):e0142691(16 pages).
43. Shrimpe MG, **Verguet S**, Johansson KA, Jamison DT, Kruk ME. Task-shifting, universal public finance, or both for the expansion of surgical access in rural Ethiopia: an extended cost-effectiveness analysis. *Health Policy and Planning* 2016; 31(6):706-716.
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45. Memirie ST, **Verguet S**, Norheim OF, Levin CE, Johansson KA. Inequalities in utilization of maternal and child health services in Ethiopia: the role of primary health care. *BMC Health Services Research* 2016; 16:51.
46. Black RE, Levin, Walker N, Chou D, Liu L, Temmerman M, for the **DCP3 RMNCH Authors Group**. Reproductive, maternal, newborn and child health: key messages from *Disease Control Priorities* 3<sup>rd</sup> edition. *Lancet* 2016; 388:2811-2825.
47. **Verguet S**. Defining pathways and tradeoffs toward universal health coverage. *International Journal of Health Policy and Management* 2016; 5(7):445-447.
48. Johri M, **Verguet S**, Morris SK, Sharma JK, Ram U, Gauvreau CL, Jha P, Jit M. Adding interventions to mass measles vaccinations in India. *Bulletin of the World Health Organization* 2016; 94:718-727.
49. **Verguet S**, Kim JJ, Jamison DT. Extended cost-effectiveness analysis for health policy assessment: a tutorial. *Pharmacoeconomics* 2016; 34(9):913-923.
50. Kruk ME, Leslie HH, **Verguet S**, Mbaruku GM, Adanu RMK, Langer A. Quality of basic maternal care functions in health facilities of five African countries: an analysis of national health system surveys. *Lancet Global Health* 2016; 4(11):e845-e855.
51. Loganathan T, Jit M, Hutubessy R, Ng C-W, Lee W-S, **Verguet S**. Rotavirus vaccines contribute towards universal health coverage in a mixed public-private healthcare system. *Tropical Medicine and International Health* 2016; 21(11):1458-1467.

52. Tolla MT, Strand K, Memirie ST, Norheim OF, Senkoro K, Guteta S, Ababulgu A, Jerene D, Bertram M, **Verguet S**, Johansson KA. Cost-effectiveness analysis of prevention and treatment of cardiovascular disease in an Ethiopian setting: a country contextualization. *Cost Effectiveness and Resource Allocation* 2016; 14:10.
53. **Verguet S**, Nandi A, Filippi V, Bundy DP. Maternal mortality and impoverishment among rich and poor adolescent girls in India and Niger: a modeling study. *BMJ Open* 2016; 6:e011586.
54. Munshi V, Yamey G, **Verguet S**. Trends in state-level child mortality, maternal mortality, and fertility rates In India. *Health Affairs* 2016; 35:1753-1758.
55. Menzies NA, Gomez GB, Bozzani F, Chatterjee S, Foster N, Garcia Baena I, Laurence YV, Qiang S, Siroka A, Sweeney S, **Verguet S**, Arinaminpathy N, Azman AS, Bendavid E, Chang ST, Cohen T, Denholm JT, Dowdy DW, Eckhoff PA, Feldman MW, Goldhaber-Fiebert JD, Handel A, Huynh GH, Lin H-H, Mandal S, McBryde ES, Pandey S, Salomon JA, Suen S-c, Sumner T, Trauer JM, Wagner BG, Whalen CC, Wu C-Y, Boccia D, Chadha VK, Charlambous S, Chin D, Churchyard G, Daniels C, Dewan P, Ditiu L, Eaton JW, Grant A, Hippner P, Hosseini M, Lalli M, Mametja D, Pretorius C, Pillay Y, Rade K, Sahu S, Wang L, Houben RMGH, Kimerling ME, White RG, Vassall A. Cost-effectiveness and resource implications of aggressive TB control in China, India and South Africa: a combined analysis of nine models. *Lancet Global Health* 2016; 4(11):e816-826.
56. **Verguet S**, Memirie ST, Norheim OF. Assessing illness-related poverty: a breakdown of medical impoverishment by disease in Ethiopia. *BMC Medicine* 2016; 14:164.
57. Salti N, Brouwer ED, **Verguet S**. The health, financial and distributional consequences of increases in tobacco tax among smokers in Lebanon. *Social Science and Medicine* 2016; 170:161-169.
58. Sánchez González L, Rodriguez-Lainz A, O'Halloran A, Rowhani-Rahbar A, Liang JL, Lu P-j, Houck PM, **Verguet S**, Williams W. Factors related with pertussis and tetanus vaccination coverage among foreign-born adults living in the US. *Journal of Community Health* 2017; 42(3):573-582.
59. Memirie ST, Metaferia ZS, Norheim OF, Levin C, **Verguet S**, Johansson KA. Catastrophic health expenditure and impoverishment associated with pneumonia and diarrhea treatment costs in Ethiopia. *BMJ Global Health* 2017; 1:e000166.
60. Cookson R, Mirelman A, Griffin S, Asaria M, Dawkins B, Norheim OF, **Verguet S**, Culyer A. Using cost-effectiveness analysis to address health equity concerns. *Value in Health* 2017; 20:206-212.
61. Shrimpe MG, Alkire BC, Grimes C, Chao T, Poenaru D, **Verguet S**. Cost-effectiveness in global surgery: pearls, pitfalls, and a checklist. *World Journal of Surgery* 2017; 41(6):1401-1413.
62. Lin R-T, Lin C-K, Christiani DC, Kawachi I, Cheng Y, **Verguet S**, Jong S. The impact of the introduction of new recognition criteria for overwork-related cardiovascular and cerebrovascular diseases: a cross-country comparison. *Scientific Reports* 2017; 7(1):167.

63. Tolla MT, Norheim OF, **Verguet S**, Bekele A, Amenu K, Abdisa SG, Johansson KA. Out-of-pocket expenditures for prevention and treatment of cardiovascular disease in general and specialized cardiac hospitals in Addis Ababa, Ethiopia: a cross-sectional cohort study. *BMJ Global Health* 2017; 2:e000280.
64. **Verguet S** (co-primary author), Jones E, Johri M, Morris SK, Gauvreau CL, Jha P, Jit M. Characterizing measles transmission in India: a dynamic modeling study using verbal autopsy data. *BMC Medicine* 2017; 15:151.
65. **Verguet S**, Woldemariam AT, Durrett W, Norheim OF, Kruk ME. Is the Sustainable Development Goal target for financial risk protection in health realistic? *BMJ Global Health* 2017; 2:e000216.
66. **Verguet S**, Tarr G, Gauvreau CL, Mishra S, Jha P, Yue C, Qiu S, Liu L, Zhao K. Distributional benefits of tobacco tax and smoke-free workplaces in China: a modeling study. *Journal of Global Health* 2017; 7(2):020701.
67. **Verguet S**, Riumallo-Herl C, Gomez G, Menzies NA, Houben RMGJ, Sumner T, Lalli M, White R, Salomon JA, Cohen T, Foster N, Chatterjee S, Sweeney S, Garcia Baena I, Lonnroth K, Weil DE, Vassall A. Catastrophic costs potentially averted by tuberculosis control in India and South Africa: a modelling study. *Lancet Global Health* 2017; 5(11):e1123-e1132.
68. Chang A, Ogbuaji O, Atun R, **Verguet S**. Dynamic modeling approaches to characterize the functioning of health systems: a systematic review of the literature. *Social Science and Medicine* 2017; 194:160-167.
69. Knaul FM, Farmer PE, Krakauer EL, De Lima L, Bhadelia A, Kwete XJ, Arreola-Ornelas H, Gmez-Dants O, Rodriguez NM, Alleyne G, Connor SR, Hunter DJ, Lohman D, Radbruch L, del Roco Senz Madrigal M, Abu-Saad Huijjer H, Binagwaho A, Bosnjak SM, Clark D, Cleary J, Cosso Daz JR, Goh C, Goldschmidt-Clermont PJ, Gospodarowicz M, Gwyther L, Higginson IJ, Hughes-Hallett T, Luyirika E, Medina Mora ME, Mwangi-Powell F, Nishtar S, O'Brien ME, Reddy SK, Salerno JA, **Verguet S**, Bhadelia N, Ntizimira CR, Jimenez J, Perez Cruz PE, Allende S, Spence D, Salas Herrera I, Steedman M, Calderon M, Fan VY, Mendez O, Downing J, Lorenz K, Nugent R, Zimmermann C, Elsner M, Thanh Khanh Q, Paudel BD, Wroe EB, Atun R, Foley KM, Frenk J, Jamison DT, Rajagopal MR. Alleviating the access abyss in palliative care and pain relief: an imperative of universal health coverage. *Lancet* 2018; 391:1391-1454.
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71. Bundy DAP, de Silva N, Horton S, Patton GC, Schultz L, Jamison DT, as part of the **DGP3 Child and Adolescent Development Author Group**. Investment in child and adolescent health and development: key messages from Disease Control Priorities, 3rd Edition. *Lancet* 2018; 391:687-699.
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- Loder E Lyddiatt A, Mbuagbaw L, McGowan J, Moher D, Pantoja T, Petkovic J, Petticrew M, Pottie K, Robberstad B, Shea B, Taljaard M, **Verguet S**, Volmink J, Weijer C, Wells GA, Wester G, White H, Whitehead M, Yoganathan M. Better reporting of health equity in randomised trials: CONSORT-Equity 2017 extension and elaboration. *BMJ* 2017; 359:j5085.
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  74. Loganathan T, Ng C-W, Lee W-S, Hutubessy R, **Verguet S**, Jit M. Thresholds for decision-making: informing the cost-effectiveness and affordability of rotavirus vaccines in Malaysia. *Health Policy and Planning* 2018; 33(2):204-214.
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  76. Postovolska I, Lavado R, Tarr G, **Verguet S**. Estimating the distributional impact of increasing taxes on tobacco products in Armenia: results from an extended cost-effectiveness analysis. *Health Systems & Reform* 2018; 4(1):30-41.
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  80. Postovolska I, Helleringer S, Kruk ME, **Verguet S**. The impact of measles supplementary immunization activities on utilization of maternal and child health services in low- and middle-income countries. *BMJ Global Health* 2018; 3:000466.

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