

ENRIQUE M. SALDARRIAGA

PhD candidate. The Comparative Health Outcomes, Policy & Economics (CHOICE) Institute
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Education

2022(expected)	PhD in Health Economics and Outcomes Research. The CHOICE Institute. University of Washington, USA <u>Dissertation</u> : The value of reducing uncertainty of HIV-prevalence estimates at the zip code level. Case of study in Atlanta, Georgia <u>Dissertation committee</u> : Anirban Basu (Chair), Ruanne Barnabas, Marita Zimmermann, Abhinav Nath (Graduate Student Representative)
2015	Master of Science in Epidemiology. University of Cayetano Heredia, Perú <u>Thesis</u> : Income elasticity of the Body Mass Index in presence of Economic Wealth as effect modifier
2011	Bachelor of Science in Economics. University of the Pacific, Perú <u>Thesis</u> : Cost-benefit analysis of enhancing the Primary Health Care in Peru

Honors

2021	Lusted Award Winner for Outstanding Presentation in Quantitative Methods and Theoretical Developments, 43rd Annual Meeting of the Society for Medical Decision Making
2021	2021 Louis Sr. and Marilyn Garrison Endowed Prize in Health Policy and Economics. The CHOICE Institute, University of Washington
2021	Rubenstein Endowment Grant to support Dissertation research. School of Pharmacy, University of Washington
2019	Lusted Award Finalist for Outstanding Presentation in Health Services, Outcomes, and Policy Research, 41st Annual Meeting of the Society for Medical Decision Making
2018	Stergachis Endowed Fellowship for International Exchange Award. Department of Global Health, University of Washington
2015	Scholarship (Full Tuition) for the Master of Science in Epidemiology at University Cayetano Heredia. School of Public Health and Administration

Positions

Dates	September 2017 – Present
Employer	The CHOICE Institute and Department of Health Services, University of Washington
Position	Research Associate
Description	I have developed several research projects both as a leader under the guidance of faculty and as a team member in charge of specific components of the project. My experience includes research in preferences elicitation, economic evaluation, methods for uncertainty assessment, decision modeling, econometrics, and disease modeling. In addition to The CHOICE Institute, I have collaborated with researchers from the Departments of Global Health, Public Health, Epidemiology, and Statistics, University of Washington.
Dates	April 2017 – August 2017
Employer	Ministry of Health

Position	Unit chief, Direction of Operations, Vice ministry of Healthcare and Insurance
Description	I led the development of a blueprint to implement an intelligence unit that aimed to monitor the operations, achievements, and deficiencies public healthcare facilities in Peru to predict the status of the provision of services and prevent shortcomings.
Dates	July 2014 – March 2017
Employer	School of Public Health, University Cayetano Heredia
Position	Researcher
Description	I conducted economic evaluation of novel technologies for screening and treatment of sexually transmitted diseases and public policy analysis.
Dates	September 2011 – July 2013
Employer	International Bank of Perú – INTERBANK. Lima, Peru
Position	Analyst for Public Investment Projects
Teaching	
Jun 2020 -	The CHOICE Institute, University of Washington. Teaching Assistant in the Certificate in Health Economics and Outcomes Research
Jul 2015 – Jul 2016	School of Public Health and Administration, University Cayetano Heredia, PE. Lecturer in Economics
Mar 2010 – Jul 2014	Department of Economics, School of Economics. University of the Pacific, PE. TA in Macroeconomics and Econometrics
Training	
Jun – Aug 2021	Internship in Value and Access Strategy. Xcenda, TX, USA
Jun 2021	Global School on Empirical Research Methods (GSERM) – Bayesian Data Analysis. St. Galle University, Switzerland
Jul 2020	12th Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID). University of Washington. Seattle, WA, USA
Aug – Nov 2019	Internship in Health Economics. Institute for Disease Modeling (IDM), Intellectual Ventures. Bellevue, WA, USA
May – Jun 2019	Clinic on Meaningful Modeling of Epidemiological Data (MMED). African Institute for Mathematical Sciences. Cape Town, South Africa
Jul 2014 – Jun 2015	KUSKAYA: An Interdisciplinary Training Program for Innovation in Global Health. Fogarty International Center, NIH. Lima, Peru
Jul – Aug 2016	Summer School in Development Policy. University of Bonn. Bonn, Germany
Jul – Aug 2015	Economic Evaluation in Global Health. University of Washington, USA
Feb – Sep 2012	Evaluation of Public Investment Projects. University of Pacific. Lima, Peru
Service	
2020 -	Graduate student representative in the School of Pharmacy Diversity, Equity, and Inclusion Council (DEIC). Chair of the Recruitment, Retention, and Development Working group.
2020 -	Reviewer: Journal of Biomedical Informatics, Value in Health Regional Issues, Journal of Infectious Diseases
2020	Student representative in the CHOICE Institute PhD Admission Committee
2019 - 2020	President of the University of Washington's Student Chapter of the International Society for Pharmacoeconomics and Outcomes Research (ISPOR)

Skills

Coding Languages. R, Stata, Python (Numpy, SciPy, Pandas), Stan, JAGS

Decision sciences. Probabilistic decision modeling, economic evaluation, preferences elicitation, uncertainty assessment, disease modeling

Data Analysis. Generalized linear models & methods for causal inference; Complex structures; Bayesian regression; Spatial analysis of epidemiological data; machine learning

Data Visualization. Use of data visualization and storytelling to better communicate complex information

Scientific communication. Understand the best way to take a scientific message across depending on the audience. Better understand the motivation and use of information of each stakeholder to improve messaging

Manuscripts

Published and In Press

Shin MB, Fiestas JL, **Saldarriaga EM**, Barnabas RV, Gimbel S, Garcia PJ. *Cost of community-based human papillomavirus self-sampling in Peru: a micro-costing study*. The Lancet Global Health. In press.

Saldarriaga, EM, Hauber, B., Carlson, J.J., Barthold, D., Veenstra, D.L., Devine, B. *Assessing payers' preferences for Real World Evidence in the United States: A Discrete Choice Experiment*. Value in Health, In press. DOI: 10.1016/j.jval.2021.09.016

Saldarriaga EM, Cárcamo CP, Babigumira JB, García PJ. *The Annual costs of treating genital warts in the Public Healthcare Sector in Peru*. BMC Health Services Research. 2021;21(1):1092. doi:10.1186/s12913-021-07120-w

Saldarriaga EM, Bravo-Zúñiga J, Hurtado-Roca Y, Suarez V. *Cost-effectiveness analysis of a strategy to delay progression to dialysis and death among chronic kidney disease patients in Lima, Peru*. Cost Eff Resour Alloc. 2021;19(1):70. doi:10.1186/s12962-021-00317-0

Saldarriaga EM. *HIV-Prevalence Mapping Using Small Area Estimation in Kenya, Tanzania, and Mozambique at the First Sub-National Level*. Annals of Global Health. 2021;87(1):93. doi:10.5334/aogh.3345

Motaze NV, Mthombothi ZE, Adetokunboh O, Hazelbag C, **Saldarriaga EM**, et al. *The Impact of Rubella Vaccine Introduction on Rubella Infection and Congenital Rubella Syndrome: A Systematic Review of Mathematical Modelling Studies*. Vaccines. 2021;9(2):84. doi:10.3390/vaccines9020084

Miller, M., **Saldarriaga, E. M.** & Jones-Smith, J. C. *Household socioeconomic status modifies the association between neighborhood SES and obesity in a nationally representative sample of first grade children in the United States*. Preventive Medicine Reports 20, 101207 (2020).

Bravo-Zúñiga J, **Saldarriaga EM**, Chavez-Gomez R, et al. *Effectiveness of adherence to a renal health program in a health network in Peru*. Revista de Salud Pública. 2020;54(7)

Lescano A, Antiporta D, Luna A, **Saldarriaga EM**, et al. *Challenges and Priorities: Peruvian policy in adolescents and youth* Lima, PE: The United Nations System in Peru; 2018 Sep p. 82.

Saldarriaga EM, Vodicka E, La Rosa S, Valderrama M, Garcia PJ. *Point-of-Care Testing for Anemia, Diabetes, and Hypertension: A Pharmacy-Based Model in Lima, Peru*. Annals of Global Health. March 2017;83(2):394-404.

Submitted and in preparation

Ulrich A, Adamson B, **Saldarriaga EM**, et al. *Finding and Treating Early Stage HIV Infections: A cost-effectiveness analysis of the SABES study in Lima, Peru*. Submitted.

Ongoing projects

Saldarriaga EM, Basu A. *Estimating HIV-prevalence point estimates and uncertainty bounds at the zip code level using existing data*. In preparation

Saldarriaga EM, Beima-Sofie K, Jhon-Stewart G, et al. *Costing analysis of implementing an Adolescent Transition Package (ATP) within the Adolescent Transition To Adult Care for HIV-infected adolescents in Kenya (ATTACH) clinical trial*. In preparation

Saldarriaga EM, Basu A. *Health Mass Index: Obesity Metrics to Reflect Health Rather Than Growth*. In preparation

Cost-effectiveness analysis of various ways to allocate healthcare resources at the local level using prevalent cases of HIV as a proxy for needs. Case of study in Atlanta, Georgia (Dissertation aim)

Quantify the expected value of perfect and partial information of reducing decision uncertainty when using local HIV-prevalence estimates at the zip code level. Case of study in Atlanta, Georgia (Dissertation aim)

Beyond political affiliation: Predictors of COVID-19 vaccine hesitancy. Supervised machine learning algorithms to find the best predictors for vaccines hesitancy (HHS-ASPE survey) in the US and compare its goodness of fit to a model that uses political affiliation (results of the 2020 presidential election) alone.

Discrete Choice Experiment to better understand the acceptability drivers of long-acting antiretroviral therapy products in Seattle and Atlanta.

Evaluation of client preferences for an online-based pre-exposure prophylaxis delivery model in Kenya.

Impact of the COVID-19 pandemic in the access to healthcare services among children between 2 and 12 years of age, diagnosed with down syndrome, in Lima, Peru

Analysis and trade-off quantification of provider preferences toward Treatment Response Scores to guide therapy decisions in Advance Lung Cancer

Selected presentations

Conferences

Saldarriaga EM, Basu, A. *Using passive surveillance data to estimate HIV prevalence at the zip code level*. Case of study in Atlanta, GA. In SMDM2021; 2021 Oct, Virtual. *Podium*

Saldarriaga EM, Hauber B, Carlson J, Barthold D, Veenstra D, Devine B. *Assessment of Payers' Preferences for Real World Evidence: A Discrete Choice Experiment*. In iHEA 2021; 2021 Jul, Virtual. *Podium*

Saldarriaga EM, Basu A. *Health Mass Index: Obesity Metrics to Reflect Health Rather Than Growth*. In SMDM 2019; 2019 Oct, Portland, Oregon. *Student Award Finalist*

Saldarriaga EM, Ulrich AK, Adamson BJ, Duerr A. *SABES: A cost effective Treatment as Prevention intervention to identify and treat recent HIV infections*. MMED 2019; 2019 Jun; Cape Town, South Africa. *Podium*.

Saldarriaga EM, Carcamo C. C. *Income-Elasticity of the Body Mass Index. Results from a Peruvian Household Survey*. ISPOR 2019; 2019 May; New Orleans. *Poster*

Talks and Seminars

Hobbies

Saldarriaga EM. *The use of Bayesian prediction models to correct for data incompleteness.* Virtual, Investigation Centre (CIUP), University of the Pacific, Peru. Nov 2021

Saldarriaga EM, Devine B. *Assessment of payers' preferences for Real World Evidence: A Discrete Choice Experiment.* Virtual, Patient Preferences Group, Pfizer. Nov 2021

Saldarriaga EM. *Using passive surveillance data to estimate HIV prevalence at the zip code level. Case of Study in Atlanta, Georgia.* Virtual, CRONICAS, University Cayetano Heredia. Oct 2021

Saldarriaga EM. *The value of reducing uncertainty of HIV-prevalence estimates at the zip code level. Case of study in Atlanta, Georgia.* Virtual, S. Verguet Team Seminar, TH Chan School of Public Health, Harvard. May 2021

Saldarriaga EM, Devine B. *Assessment of payers' preferences for Real World Evidence: A Discrete Choice Experiment.* Virtual, Genentech. Apr 2021

Saldarriaga EM. *The value of reducing uncertainty of HIV-prevalence estimates at the zip code level. Case of study in Atlanta, Georgia.* Virtual, Institute for Disease Modelling (IDM), Seattle, USA. Apr 2021

Saldarriaga EM, Devine B. *Assessment of payers' preferences for Real World Evidence: A Discrete Choice Experiment.* Virtual, Program in Health Economics and Outcomes Methodology (PHEnOM), University of Washington. Dec 2020

Saldarriaga EM. *Methods for costing data collection. Theory and lessons learned.* Applied Epidemiology Group, Department of Global Health, Seattle, USA. Jan 2020

Saldarriaga EM, Basu A. *Health Mass Index (HMI): Obesity Metrics to Reflect Health Rather Than Growth.* The CHOICE Seminar, Seattle, USA. May 2019

Saldarriaga EM. *Peruvian Health System: Structure and Challenges.* MB Program, University of Quinipiac. Lima, Peru. Jun 2017

Cooking. I enjoy finding ways to optimize flavor under the restriction of the fridge contents

Sports. Bike riding, swimming, and watching football.