

Lucas Godoy Garraza

With over fifteen years of experience with statistical methods applied to program evaluation, Mr. Godoy Garraza has provided methodological guidance and conducted statistical analysis for a range of studies particularly in the area of public health. He devised and conducted impact evaluations based on nonexperimental data using propensity score matching, inverse probability weighting, interrupted time series and synthetic control methods. He has experience analyzing data from different sources including complex sample surveys and large administrative databases based on claims or hospital discharges. He is familiar with current approaches to handle data with different features including longitudinal (panel), spatially structured, clustered, and incomplete data (e.g. due to nonresponse or attrition). He has been involved in the dissemination of findings through peer-reviewed articles and conference presentations, and has delivered short trainings on technical aspects of evaluation design and analysis to audiences with varied background.

Relevant Experience

Statistician, Community Support Evaluation: Behavioral Health Treatment Court Collaborative, Substance Abuse and Mental Health Services Administration (SAMHSA), 2015–Present. Conduct

survival analysis to examine recidivism following participation on alternative to incarceration programs for individuals with serious mental illness. Construct ‘synthetic’ controls for two Brooklyn courts implementing ‘enhanced’ alternatives to incarceration for clients with serious mental illness using statewide case-level data on court activity in NYS corresponding to the last 20 years in order to assess the impact of the initiative on recidivism.

Statistician, National Outcome Evaluation of the Garret Lee Smith (GLS) Suicide Prevention Program, Substance Abuse and Mental Health Service Administration (SAMHSA), 2014–Present. Use extant morbidity and mortality data (including NSDUH and HCUP) together with a combination of quasi-experimental approaches (including propensity score matching, inverse probability weighting) to assess the impact of the program on youth suicide behavior in exposed communities. In addition, design and conduct study to assess impact of zero suicide efforts using Medicaid Analytic eXtract (MAX) from multiple states. Also, design and analyze a factorial RCT to assess effectiveness of role-play and booster exercises on participants’ gatekeeper behavior.

Statistician, Outcome Evaluation of Teen Pregnancy Prevention, Centers for Disease Control and Prevention (CDC), 2019. Used vital records and the synthetic control (SC)

Highlights of Qualifications

- 15+ years of experience with statistical methods applied to program evaluation
- Experienced with quasi-experimental approaches such as synthetic control methods.
- Analyzed from complex survey and large administrative databases

Education

- MA, Quantitative Methods in Social Sciences, Columbia University, New York, 2007
- MA, Public Policy and Management, Universidad de Chile, Santiago de Chile, 2000
- BA, Political Science, Universidad del Salvador, Buenos Aires, 1997

Certifications/Trainings

- Advanced Causal Inference Workshop (24-hr), 2018
 - Advanced Causal Inference Workshop (24-hr), 2014
 - Cross-Sectional and Longitudinal Multi-Level Modeling Training (24-hr), 2009
 - Python Programming Language Training (40-hr), 2008
 - Missing Data Training (40-hr), 2008
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methodology to estimate the impact of community-wide intervention on teen birth rates in ten communities across the US.

Statistician, National Evaluation of the Native Connections Grants, Substance Abuse and Mental Health Service Administration (SAMHSA), 2017–2018. Developed impact evaluation design that takes advantage of large extant data, particularly hospital discharge data (i.e., HCUP), together with data collected by national evaluation and uses optimal propensity score matching to identify control communities.

Statistician, Evaluation of M-Choice smartphone application pilot—United Nations Population Fund (UNFPA), 2017.

Designed a randomized evaluation of the impact of a mobile phone application piloted in the Dominican Republic intended to increase access to sexual and reproductive health information among adolescents. Run power analysis and drafted the data collection instruments.

Statistician, Mount Sinai Adolescent Health Center Evaluation, Mount Sinai, 2015–2017.

Analyzed longitudinal study on a sample of MSAHC users and users of other health care facilities to determine differential effectiveness of MSAHC approach, particularly on reproductive health outcomes. Used propensity score sub classification to account for initial differences between samples as well as differential attrition.

Statistician, Military Family Life Project: Longitudinal Analyses 2010–2012, Military Community and Family Policy (MC&FP), Department of Defense, 2013–2015. Consulted on the statistical analysis of a survey of spouses of active duty members arising from a stratified longitudinal sample design. Consulting topics includes handling of sampling weights for proper inference, regression analysis using complex surveys and data visualization, assessing nonresponse bias.

Statistician, Secondary Data Analysis: Racial and Ethnic Approaches to Community Health (REACH), Centers for Disease Control and Prevention (CDC), 2013–2015. Used propensity score techniques (both matching and subclassification) to construct a comparison sample from the national Behavioral Risk Factor Surveillance System (BRFSS) for a survey of a probabilistic sample of residents in REACH communities in two time periods (baseline and follow up) with no comparison sample.

Statistician, Outcome Evaluation of Teen Pregnancy Prevention, Centers for Disease Control and Prevention (CDC), 2010–2013. Design sample for household survey of teens in two intervention and two control communities. The design involved stratified two-stage cluster sample in the intervention communities, and optimal propensity score matching to select the primary sample units in the control communities. Delivered a workshop session on regression discontinuity, propensity score matching, synthetic control and power analysis to senior CDC staff from CDC's reproductive health branch.

Statistician, Mental Health Stigma, Centers for Disease Control and Prevention (CDC), 2010–2011. Produced unadjusted and multivariate adjusted estimates of stigma prevalence for numerous domains of interest (population subgroups and states) on the basis of the 2007 and 2009 BRFSS. For the multivariate adjusted estimates, used multinomial regression fitted with generalized estimating equation (GEE) to account for the complex design (implemented with SUDAAN).

Statistical Analyst/Modeler, Effects of the Community Response to HIV and AIDS in Kenya, The World Bank, 2010. Used mixed-effect models in combination with robust standard errors to analyze survey data obtained from a complex sampling design.

Statistical Analyst/Modeler, Family Education and Support Services Study, University of South Florida, 2009–2010. Used a shared parameter model, a type of structural model a type of structural model that can be used to approximate causality when assignment to treatment is endogenous, as part of an effort to determine the effect of family support services on youth health outcomes.

Statistical Analyst/Modeler, Disparities Among Children Served by the Center for Mental Health Services (CMHS) Children’s Services Program, Johns Hopkins Bloomberg School of Public Health, 2007–2009. Analyzed gender, racial, and other disparities in health outcomes using mixed-effect models with multiple imputed datasets to account for missing data. Delivered a workshop on longitudinal data analysis to graduate students at the Johns Hopkins University Bloomberg School of Public Health

Publications

Latzmana NE, Lokey C, Lesesne C, Klevens J, Cheung K, Condrón S, Godoy Garraza L (2019). An evaluation of welfare and child welfare system integration on rates of child maltreatment in Colorado. *Child Youth Serv Rev* 96:386-395.

Condrón S, Godoy Garraza L, Kuiper N, et al (2018). Comparing the Effectiveness of Brief Versus In-Depth Gatekeeper Training on Behavioral Outcomes for Trainees. *Crisis*, 15:1-10

Tevendale HD, Condrón DS, Godoy Garraza L, et al. (2017) Practical Approaches to Evaluating Progress and Outcomes in Community-Wide Teen Pregnancy Prevention Initiatives. *J Adolesc Health* 60(3):S63–S68

Godoy Garraza L, Peart Boyce S, Walrath C, Goldston, DB and McKeon R (2016), An Economic Evaluation of the Garrett Lee Smith Memorial Suicide Prevention Program. *Suicide Life Threat Behav*, 48(1): 3-11

Liao Y, Siegel PZ, Godoy Garraza L, et al. (2016) Reduced Prevalence of Obesity in 14 Disadvantaged Black Communities in the United States: A Successful 4-Year Place-Based Participatory Intervention *Am. J. Public Health*. 106(8):1442-8.

Godoy Garraza L, Walrath C, Goldston DB, et al. (2015). Effect of the Garrett Lee Smith Memorial Suicide Prevention Program on Suicide Attempts among Youths. *JAMA Psychiatry*, 72(11):1143-9.

Walrath C, Garraza LG, Reid H, et al. (2015). Impact of the Garrett Lee Smith Youth Suicide Prevention Program on Suicide Mortality. *Am. J. Public Health*. 105(5):986-993.

Susanne, CD, Garraza LG, Walrath CM, et al. (2015). Identifying and Referring Youths at Risk for Suicide Following Participation in School-Based Gatekeeper Training. *Suicide Life Threat Behav*. (4):461-76.

Riehman KS, Kakietek J, Manteuffel BA, et al. (2013). Evaluating the effects of community-based organization engagement on HIV and AIDS-related risk behavior in Kenya. *AIDS Care*, 25(1): S67-S77.

- Kutash K, Garraza L G, Ferron J, Duchnowski A, et al. (2013). The Relationship Between Family Education and Support Services and Parent and Child Outcomes Over Time. *J Emot Behav Disord.* 21(4):264–276.
- Rodi, M S, Garraza L G, Walrath C M, Stephens R L, Condrón D, Brewer B, et al. (2012). Referral patterns of youth identified at risk for suicide by trained gatekeepers. *Crisis*, 33(2):113–9.
- CDC (2012). Attitudes toward mental illness: Results from the Behavioral Risk Factor Surveillance System. Atlanta, GA: Centers for Disease Control and Prevention. Available at http://www.cdc.gov/hrqol/Mental_Health_Reports/pdf/BRFSS_Report_InsidePages.pdf
- Azur M, Garraza LG, Goldweber A (2011). Violent and nonviolent delinquent behavior among Caucasian and Hispanic youth in mental health systems-of-care programs. *Youth Violence Juv. Justice.*, 9(2): 134–149.

Languages

English & Spanish (speak, read, and write proficiently); Portuguese (reads technical material)

Software Skills

Proficient with multiple statistical software (R, SAS, SPSS, SUDAAN, Mplus, WinBugs) and database management and programming languages (SQL, Python, VB)

Employment History

Independent Consultant	Statistician	2014- present
ICF	Senior Technical Specialist	2012–2014
ICF	Technical Specialist	2009–2012
Macro International	Senior Research Associate	2007–2009
The HOPE Program	Research Analyst	2006–2007
Ministry of Health (Argentina)	Consultant	2002–2005
Ministry of Economy (Argentina)	Consultant	2001–2002
Universidad ISALUD (Argentina)	Research Assistant	1998–2001