

# Sebastian Daza

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## Education

Ph.D. candidate, Sociology, University Wisconsin–Madison.

Fellow, The Data Incubator, 2017.

M.A. Sociology, Catholic University of Chile, 2009.

B.S. Sociology, Catholic University of Chile, 2004.

## Fields of Research Interest

Social Demography, Health, Social Complexity, Social Networks, Deviance and Crime, Surveys and Methods.

## Research

### *Publications*

Daza, Sebastian and Kurt Kreuger. *Agent-Based Models for Assessing Complex Statistical Models: An Example Evaluating Selection and Social Influence Estimates from the SIENA model*. Sociological Methods and Research. 2018. In press.

### *Working papers*

Daza, Sebastian and Alberto Palloni. *Income Inequality, Income Mobility, and Mortality in the U.S.*

Daza, Sebastian, Jerrett Jones and Alberto Palloni. *The Consequences of Incarceration for Mortality for the US*. Under review.

Palloni, Alberto and Sebastian Daza. *Intergenerational Transfers in the U.S., Economic Inequality, and Social Stratification*. Under review.

### *Work in progress*

Daza, Sebastian and Jason Fletcher. *Consequences of Childbearing in Delinquency and Substance Use*.

### *Other Publications and Reports*

Daza, Sebastian (2009). Complementary Study on the Evaluation of the 2003–2008, National Strategy Against Drug Use. National Budget Agency for the Exchequer, Chile.

Daza, Sebastian, Daniella Leal and Von Hausen, Carolina (2009). Design and Validation of Context Questionnaires for the National System of Educational Assessment. Ministry of Education, Chile.

Cereceda, Luz, Sebastian Daza and Daniella Leal (2008). Results of the National Survey *Actors in the Educational System*. Ministry of Education, Chile.

Valenzuela, Eduardo, Sebastian Daza and Andrés Biehl (2007). Results of the Survey *Social Cohesion in Latin America*. Corporation for Latin American Studies, Chile.

Valenzuela, Eduardo and Sebastian Daza (2006). A Study on Drug Use and Associated Factors Among Underage Offenders. National Service of Minors, Chile.

Herrera, Soledad, Sebastian Daza, Daniella Leal and Eliana Vivencio (2006). A Series of Studies on Socio-Economic Characterization, 2003. Ministry of Planning and Cooperation, Chile.

Daza, Sebastian and Darinka Radovic (2005). Report on the Evaluation of the Unit of School Psycho-Social Care and Welfare. Corporación Municipal Puente Alto, Chile.

Daza, Sebastian and Macarena Vivent (2004). Report on the Evaluation of the Project SaludArte. Corporación Municipal Puente Alto, Chile.

Daza, Sebastian and Macarena Vivent (2003). Towards the Creation of a Quality-of-Life Instrument for Minors Between Ages 0 and 3. Department of Public Health, Catholic University of Chile.

### *Other Working Papers*

Daza, Sebastian, Eric Grodsky and Ann Meier (2014). Exploring the Consequences of Adolescent Sex in Behavioral Context.

Daza, Sebastian (2013). Drug Use and Crime Transitions Among Young Offenders in Chile.

Daza, Sebastian (2013). Segregation and Student Composition Effects on Academic Achievement in Chile.

Daza, Sebastian (2012). Substance Use, Family, and Peers Effects among Chilean Adolescents.

Daza, Sebastian (2011). Patterns and Progressions of Substance Use among Chilean Adolescents.

Somma, Nicolas and Sebastian Daza (2011). Why did the Concertación Lose? Age, Egotropic Vote, and Political Divisions in the 2009–2010 Chilean Election.

## Professional Experience

Research Assistant, Center for Demography and Ecology UW–Madison, September 2014–August 2018.

Research Associate, Center of Studies Justice and Society, Catholic University of Chile, August 2016–present.

Research Associate, Department of Sociology, Catholic University of Chile, August 2010–present.

Project Assistant, Center for Demography and Ecology UW–Madison, January 2011–August 2014.

### *Catholic University of Chile, Department of Sociology*

Director of Applied Studies, 2005–2010.

Lecturer, 2008–2010.

Instructor, Professional Certificate in Quantitative Methods, 2008–2010.

### *Diego Portales University, Chile, Department of Sociology*

Lecturer, 2007.

### *Non-Academic Institutions*

Principal Researcher, Evaluation of Program *School Psycho-Social Care and Welfare*, Corporación Municipal de Puente Alto, Chile, 2003–2008.

Researcher, Corporación Latinobarómetro, Chile, 2005.

Researcher, Feedback Consultancy, Chile, 2004.

## Teaching

### *Catholic University, Department of Sociology*

Advanced Methods of Social Research, 2008–2009.  
 Qualitative Analysis Techniques using Nvivo, 2009.  
 Advanced Analysis of Social Data, 2008–2009.  
 An Introduction to the Analysis of Social Data, 2009.  
 Design and Implementation of Social Surveys, 2008.

### *Diego Portales University, Chile, Department of Sociology*

Introduction to Statistics, 2007.

## Conference and Seminar Presentations

Life Course Influences on Later Life Health and Wellbeing, Institute for Social Research, Ann Arbor, MI, June 2017. *The Consequences of Incarceration for Mortality*.

Annual Meeting of the Population Association of America, Chicago, IL, April 2017. *Income Inequality, Income Mobility, and Mortality in the U.S.*

Annual Meeting of the Population Association of America, Chicago, IL, April 2017. *Examining the Stochastic Actor-Oriented Model (Siena) for Selection and Influence Estimation under Misspecification*

Annual Meeting of the Population Association of America, Chicago, IL, April 2017. *The Consequences of Incarceration for Mortality*.

Annual Meeting of the Population Association of America, Washington, D.C., March-April 2016. *Consequences of Child-bearing in Delinquency and Substance Use*.

Annual Meeting of the Population Association of America, Boston, MA, May 2014. *Private Intergenerational Transfers between Parents and Children in the U.S., and Consequences of the Great Recession*.

Annual Meeting of the Population Association of America, Boston, MA, May 2014. *Exploring the Consequences of Adolescent Sex in Behavioral Context*.

Weighting Workshop, University of Wisconsin–Madison, September 2012. *Longitudinal Study of Drug Use in Chile (LSDU): Some Questions about Sampling Weights*.

Presentation to the Milenio Scientific Committee of the results of project Relationship between the Onset of Drug Use and the Initiation in Delinquent Behavior in a Prison Population, 2009

Presentation of the results of the Survey on Social Cohesion in Latin America. Methodological Design of the Study and Results on Educational and Social Mobility. Corporation for Latin American Studies, 2007.

Presentation of the Results of the Program for School Psycho-Social Welfare. Corporación Municipal de Puente Alto, 2005.

Chile's 30th Seminar on Public Health, Diego Portales Convention Centre, October 1st, 2nd and 3rd, 2003. Presentation of the results of the research: Towards the Creation of a Quality-of-Life Instrument for Minors between Ages 0 and 3, 2003.

## Professional Activities

Member, Population Association of America, 2012–Present.

Mentor for new graduate students, Department of Sociology, UW-Madison, August 2013 – 2014.

Reviewer: *PLOS One*, *Social Science and Medicine*, *Race and Social Problems*, *Journal of Policy Analysis and Management*.

## Grants

National Institute on Aging, Small Grants for Research Using PSID Data, *The Consequences of Incarceration for Health and Mortality*, \$20,000, May 2016 - June 2017

San Carlos de Maipo Foundation, *Chile Re-entry Study*, \$150,000, Jan 2016 - June 2018.

## Honors, Awards, & Fellowships

Grant to attend Agent-based Modeling workshop, Technische Universität Dresden, Germany, 2015.

Grant to attend Agent-based Modeling workshop, Max Planck Institute for Demographic Research (MPIDR), Germany, 2014.

Best Master's Thesis Award, Catholic University of Chile, 2010.

Chilean Ph.D. Scholarship, BecasChile, 2010-2014.

Scholarship for Master's Degree at Catholic University of Chile.

Scholarship for Undergraduate Studies in Sociology at Catholic University of Chile.

## Workshops Attended

Agent-Based and Hybrid Modeling Bootcamp and Incubator for Health Researchers, August 2016. Instructor: Nathaniel Osgood.

Agent-based Model Analysis, Technische Universität Dresden, Germany, July 2015. Competitive selection.

Agent-based Modeling and Simulation, Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany, October 2014. Competitive selection.

The Pathways to Desistance Study: Analyzing the Life Event Calendar Data for Substance Abuse Research. ICPSR/NAHDAP Summer Program Workshop, July 2014, Ann Arbor, MI.

Doing Bayesian Data Analysis, University of Wisconsin–Madison, July 2012. Instructor: John Kruschke.

Social Network Analysis with Stochastic Actor-based Models, Summer Institutes in Statistics, University of Kansas, June 2011. Instructor: Christian E. G. Steglich.

## Languages

English (Proficient), Spanish (Native).

## Computer Skills

*Statistical Analysis Software:* R, Stata, Mplus, HLM, SPSS, SAS, and CTM.

*Data Science:* Machine Learning, Deep Learning, NLP, Model Ensemble, Spark, Dash, Shiny.

*Agent-based Modeling:* Anylogic, NetLogo.

*General Programming:* Python and Java.

*Social Network Analysis:* R (RSiena, Statnet), Python (NetworkX, graph-tool), Ucinet.

*Qualitative Data Analysis Software:* Nvivo.

*Census and Survey Processing:* CsPro.

## Software

`acsr`: R package to manage data from the US Census American Community Survey (ACS). Created for the Applied Population Laboratory at UW–Madison, May 2015.

`sampler`: R package to compute sample sizes and errors for survey design.

## References

Alberto Palloni, Ph.D.  
Samuel Preston Professor of Sociology, UW-Madison  
(608) 262–2182, palloni@ssc.wisc.edu

Jenna Nobles, Ph.D.  
Assistant Professor of Sociology, UW-Madison  
(608) 262–4024, jnobles@ssc.wisc.edu

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