

# Sebastian Daza

✉ sebastian.daza@gmail.com • 🌐 <http://sdaza.com>

Social data scientist and demographer with more than 10 years of experience in managing, designing, supervising, and analyzing applied and academic social studies. Strong quantitative-qualitative skills and theoretical background. Eager to apply my knowledge and skills to solve social problems and work with interdisciplinary teams.

## Skills

---

- **Data Science:** Machine and Deep Learning, NLP, Visualization (Dash, Shiny), SQL.
- **Modeling:** Proficiency and experience in statistical and demographic techniques (GLM, multilevel models, SNA, SEM, survival analysis, causal inference, Bayesian statistics). Agent-Based Modeling (ABM) and Simulation. See working papers on my website.
- **Research:** Designed, analyzed and presented research in academic conferences applied and academic research projects on social inequality, education, social psychology, adolescent behaviors, and social networks.
- **Survey Research:** Experience designing and implementing questionnaires using different modes (in-person, phone, web), sampling and analysis adjustments (weights, missing data). Created R package `sampler` for practitioners.
- **Project Management:** Led more than 20 research national and international projects, teams of 40 people, and manage an annual budget of US\$400,000.
- **Software:** *Statistics:* R, Stata, Mplus, HLM, SPSS, SAS, CTM, Stan, INLA. *Qualitative software:* Nvivo. Data entry and processing: CSPro. *Social Network:* Ucinet, R-Siena. *Agent-based modeling (ABM) and System Dynamics:* Anylogic, Netlogo.
- **Programming:** Python, Java (basic).
- **Languages:** English (fluent) and Spanish (native).

## Professional Experience

---

- **Research Assistant**  
*University of Wisconsin-Madison* *July 2012–current*  
Participated in four research projects resulting in 5 working papers under review to be published.
- **R Package Developer**  
*Applied Population Laboratory (APL), UW-Madison* *2014–current*  
Created R package `acsx` to help extract variables and statistics using the America Community Survey and Decennial US Census.
- **Methodology Consultant**  
*Center for Social Studies (DESUC), Catholic University of Chile* *August 2010–current*  
Designed sampling and post-adjustments in nationally representative studies in Chile. Provided methodological guidance (attrition, non-response adjustments).
- **Project Manager**  
*Center for Social Studies (DESUC), Catholic University of Chile* *May 2005–July 2010*  
Led research projects in areas such social cohesion, political perception and government approval ratings, education, crime and delinquency, and organizational studies.
- **Lecturer**  
*Catholic University of Chile* *2008–2009*  
Taught courses on advanced methods for social research, qualitative analysis, and design and implementation of social surveys.

## Education

---

- **Ph.D. Candidate (ABD) in Sociology and Demography**  
*University of Wisconsin-Madison, US* *2010–present*
- **Fellow**  
*The Data Incubator, US* *2017*
- **Master of Arts in Sociology**  
*Catholic University, Chile* *2009*
- **Bachelor of Arts in Sociology**  
*Catholic University, Chile* *2004*