

Sebastian Daza

DATA SCIENTIST · DEMOGRAPHER · SOCIOLOGIST

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Summary

Social data scientist and demographer with hands-on experience designing, managing, supervising, and analyzing applied social studies. Strong applied quantitative-qualitative skills and theoretical background. Eager to apply my knowledge and skills to solve social problems and work with interdisciplinary teams. Authorized to work in Europe and the U.S.

Work Experience

Institute of Economy, Geography and Demography, CCSH-CSIC

Madrid, Spain

SENIOR RESEARCHER

Dec. 2019 - PRESENT

- Leading a [team of researchers](#) to study early conditions, delayed adult effects and morbidity, disability and mortality
- Leading [Scrum ceremonies](#) and tracking progress using [Notion](#)
- Supervising and implementing complex data analysis on demography and [genomics](#) using [R](#) and [Java](#)

Juntos Global

Bay area, California, US

SENIOR QUANTITATIVE SOCIAL SCIENCE

May. 2018 - Dec. 2019

- Led analytic team for [user insights](#)
- Provided user insights through the design and analysis of [experiments \(A/B testing\)](#)
- Implemented [NLP](#) and [machine learning](#) models to classify users and topics
- Worked closely with [Product Managers](#), [Software Engineers](#), and [Design team](#) to improve Juntos' product
- Collaborated in the design and implementation of the data pipeline using [Python](#) and [Databricks](#)

Center for Social Studies, Catholic University

Santiago, Chile

METHODOLOGICAL CONSULTANT

Jul. 2010 - Aug. 2019

- Designed samples and post-adjustments in large studies (organizational, public opinion, and educational studies)
- Provided methodological guidance (attrition, non-response adjustment)

Center for Studies in Demography and Ecology, UW-Madison

Madison, US

RESEARCH ASSISTANT

Jul. 2012 - Aug. 2018

- Participated in four research projects
- Presented results in conferences and published papers

Center for Social Studies, Catholic University

Santiago, Chile

DIRECTOR

May. 2005 - Jul. 2010

- Led several research projects in areas such as organizational studies (engagement surveys, climate and pulse checks, culture analysis), political perception and government approval ratings, education (curriculum impact), tobacco and substance, and crime and delinquency.
- A key project was the Survey of Social Cohesion in Latin America (ECosocialL) that involved 7 countries: Chile, Argentina, Brazil, Colombia, Guatemala, Mexico and Peru, and 10,000 cases.

Education

University of Wisconsin-Madison

Wisconsin, US,

PHD IN SOCIOLOGY AND DEMOGRAPHY

Feb. 2021

Catholic University of Chile

Santiago, Chile

MASTER OF ARTS IN SOCIOLOGY

Jan. 2009

Catholic University of Chile

Santiago, Chile

BACHELOR OF ARTS IN SOCIOLOGY

Mar. 2004

Skills

Programming	Python, Java, R
Data science	Machine Learning, NLP, Visualization, Dashboard (Dash, Shiny), pySpark, SQL, PostgreSQL, Databricks
Stats software	R, Python, Stan, Stata
Modeling	GLM, multilevel, SNA, SEM, life tables, survival analysis, causal inference, Bayesian statistics, agent-based modeling (ABM)
Tools	Notion, Trello, Jira, Confluence, Git, Latex
Languages	English, Spanish

Certifications

2021	Genomics for Social Scientists - National Institute of Aging , University of Michigan	<i>Michigan, US</i>
2017	The Data Incubator Boot-camp , Capstone Project: Tracking sentiment of Congress members' tweets	<i>Washington DC, US</i>
2016	Agent-Based and Hybrid Modeling Bootcamp , University of Saskatchewan	<i>Saskatoon, Canada</i>
2015	Agent-based Model Analysis , Technische Universität Dresden	<i>Dresden, Germany</i>
2014	Agent-based Modeling and Simulation , Max Planck Institute for Demographic Research	<i>Rostock, Germany</i>
2011	Social Network Analysis with Actor-based Models , Summer Institutes in Statistics, University of Kansas	<i>Kansas, US</i>

Other

Center for Justice and Society Studies, Catholic University

Santiago, Chile

RESEARCH AFFILIATE

Mar. 2016 - PRESENT

- Co-investigator of the project Women Re-entry Study
- Provide methodological advice for the design of samples and experiments

Kreuger Consulting, LLC

Texas, US

INDEPENDENT CONTRACTOR

May. 2021 - PRESENT

- Create an interactive data dashboard tool using R and Shiny, to visualize outputs from a Covid-19 agent-based model
- Provide domain stakeholders with the ability to interact with and modify the results displayed

Software

acsr	Created R package to extract variables and statistics from the America Community Survey and Decennial US Census
zotnote	Created Python package to extract notes from Zotero