

# Sebastian Daza

DATA ANALYST · DATA SCIENTIST · DEMOGRAPHER · SOCIOLOGIST

Av. Francisco Pi y Margall 86, 2D, Madrid, Spain, 28050

☎ (+34) 634 49 16 16 | ✉ sebastian.daza@gmail.com | 🌐 https://sdaza.com | 📷 sdaza | 📱 sebastian.daza

## Summary

Social data analyst and scientist 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 DATA RESEARCHER ANALYST

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 DATA SCIENTIST

May. 2018 - Dec. 2019

- Led analytic and data science 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](#), [PySpark](#), and [Databricks](#)

### Center for Social Studies, Catholic University

Santiago, Chile

DATA SCIENTIST CONSULTANT

Jul. 2010 - May. 2018

- 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. 2014 - May. 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

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

## Certifications

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

## Other

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### 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*

DATA SCIENTIST

*May. 2021 - Jul. 2021*

- 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

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