

# Sebastian Daza

DATA SCIENTIST · DATA ANALYST · DEMOGRAPHER · SOCIOLOGIST

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## Summary

Social data scientist and analyst with hands-on experience designing, managing, supervising and analyzing applied social and industry studies. Strong applied quantitative and qualitative skills and social and behavioral background. I am eager to apply my knowledge and skills in researching and impacting people around us and working with interdisciplinary and multicultural teams.

## 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 (ECosocial) that involved 7 countries: Chile, Argentina, Brazil, Colombia, Guatemala, Mexico and Peru, and 10,000 cases.

## Consultancy

### 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

- Created an interactive data dashboard tool using [R](#) and [Shiny](#), to visualize the output of a Covid-19 agent-based model
- Provided domain stakeholders with the ability to interact with and modify the results displayed

## Personio

DATA SCIENTIST

*Madrid, Spain*

*May. 2020 - Jul. 2020*

- Created an interactive data dashboard tool using R and Shiny to assess recruitment performance and transition rates between interview states. The dashboard also simulates hiring scenarios to estimate the number of interviews and recruiters needed by position, role, and office.

## Applied Population Lab, UW-Madison

DATA SCIENTIST

*Madison, US*

*Oct. 2016 - Jul. 2018*

- Created R package to extract variables and statistics from the American Community Survey and Decennial US Census.

## 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, MPlus
<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
<b>Teaching</b>	Taught courses on statistics, data science, and research design to undergraduate and graduate students.

## 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 (Reference Manager)

## Education

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### University of Wisconsin-Madison

PHD IN SOCIOLOGY AND DEMOGRAPHY

*Wisconsin, US,*

*Feb. 2021*

### Catholic University of Chile

MASTER OF ARTS IN SOCIOLOGY

*Santiago, Chile*

*Jan. 2009*

### Catholic University of Chile

BACHELOR OF ARTS IN SOCIOLOGY

*Santiago, Chile*

*Mar. 2004*

## Certifications

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2017	<b>The Data Incubator (Data Science)</b> , Capstone Project: Tracking sentiment of Congress members' tweets	<i>Washington DC, US</i>
2021	<b>Genomics for Social Scientists - National Institute of Aging</b> , University of Michigan	<i>Michigan, 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>