Sebastian **Daza**

Data Scientist · Data Analyst · Researcher · Demographer

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

Data scientist and analyst with hands-on experience designing, managing, supervising, and analyzing applied industry and social 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

Lookiero
Remote, Spain

SENIOR DATA SCIENTIST
June. 2022 - PRESENT

- Technical lead in data science and causal inference
- Define a hybrid recommendation model using more than 200M feedbacks from users
- Use statistical models to identify sources of product success (variance decomposition) and the causal effect of discount strategies
- Simulation of scenarios
- Contribute to define a framework to iterate neural network models in Databricks (PySpark)

Institute of Economy, Geography and Demography, CCSH-CSIC
Madrid, Spain

SENIOR DATA RESEARCHER ANALYST
Dec. 2019 - Apr. 2022

- Led a team of researchers to study early conditions, delayed adult effects and morbidity, disability and mortality
- Led Scrum ceremonies and tracked progress using Notion
- Supervised and implemented complex data analysis on demography and genomics using R and Java
- Health modeling and simulation using Anylogic

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 at 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   *Madrid, Spain*

Data Scientist   *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   *Madison, US*

Data Scientist   *Oct. 2016 - Jul. 2018*

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

Skills

Programming	Python, Java, R
Data science	Machine Learning, NLP, Visualization, Dashboard (Dash, Shiny), pySpark, SQL, PostgreSQL, Databricks
Stats software	R, Python, Stan, Stata, MPlus
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
Teaching	Taught courses on data science, statistics and research design for undergraduate and graduate students. Teaching in the Master in Computational Social Sciences at the University Carlos III, Madrid

Software

acsr	Created R package to extract variables and statistics from the American Community Survey and Decennial US Census
zotnote	Created Python package to extract notes from Zotero (Reference Manager)

Education

University of Wisconsin-Madison   *Wisconsin, US,*

PhD in Demography (Quantitative Sciences)   *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*

Certifications

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