Sebastian **Daza**

Data Scientist · Data Analyst · Researcher · Demographer

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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/behavioral background. Eager to apply my knowledge and skills in researching and influencing the people around us and working with interdisciplinary and multicultural teams.

Work Experience

Teladoc (Telemedicine)
Hybrid, Spain

SENIOR DATA SCIENTIST
Apr 2023 - Present

Lookiero (Online Personal Styling Service)
Remote, Spain

SENIOR DATA SCIENTIST
Jun 2022 - Feb 2023

- Technical lead in data science and causal inference (internal workshops and technical guidance)
- Used statistical models to identify sources of product success (variance decomposition)
- Causal estimation of discount strategies. Simulation of scenarios. Increased the contribution margin more than 5%
- Developed a hybrid recommendation model using more than 200M feedbacks from users
- Contributed to define a framework to iterate neural network models in Databricks (PySpark), decreasing time in training

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
- Authorship of 5+ academic papers and presentations in conferences
- Supervised and implemented complex data analysis on demography and genomics using R and Java
- Health modeling and simulation using Anylogic

Juntos Global (Conversational technology platform for financial users)
Bay area, California, US

DATA SCIENTIST
May 2018 - Dec 2019

- Led analytic and data science team for banking user insights
- Provided user insights through the design and analysis of experiments (A/B testing), improving banks' engagement
- Implemented NLP and machine learning models to classify banking users and topics and help to resolve their needs
- Worked closely with Product Managers, Software Engineers, and Design team to improve Juntos' banking engagement product
- Collaborated in the design and implementation of the data pipeline using Python, PySpark, and Databricks

Center for Studies in Demography and Ecology, UW-Madison
Madison, US

RESEARCH ASSISTANT
Jul 2014 - May 2018

- Communicated insights to different audiences in 5+ empirical research papers, and 10+ presentations at scientific conferences
- Led all aspects of 5+ research studies (funding, design, analysis, reporting)

Center for Social Studies, Catholic University
Santiago, Chile

RESEARCH DIRECTOR
May 2005 - Jul 2010

- Led several research projects in areas such as organizational studies (engagement surveys and 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

Consulting

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.
- It improved the detection of bottlenecks and assessment of performance.

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.
- The package automatized the extraction of data and improved the time for reporting.

Center for Social Studies, Catholic University *Santiago, Chile*

Data Scientist *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)

Skills

Programming	Python, R, Java
Data science	Machine Learning, NLP, Deep Learning (Keras), Visualization (Dash, Shiny), pySpark, Petastorm, SQL, PostgreSQL, Databricks
Stats/modeling	Causal inference, AB testing, hierarchical modeling, survival analysis, Bayesian statistics, simulation, agent-based modeling (ABM)
Survey design	Sample design, weighting, non-response adjustments, bias analysis, technical reporting, methodological evaluation
Tools	Notion, Trello, Jira, Confluence, Git, Latex
Languages	English, Spanish
Teaching	Prepared course materials on statistics and modeling, and wrote feedback for 200+ students.

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 *Madison, US*

PhD in Demography and Sociology

The Data Incubator *Washington DC, US*

Data Science Program

Catholic University of Chile *Santiago, Chile*

Master of Arts in Sociology