

# Juan Pablo Bascur Cifuentes

## Contact Information

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**Email:** [juanpablobascurcifuentes@gmail.com](mailto:juanpablobascurcifuentes@gmail.com)

**Location:** The Netherlands

## Profile

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Data Scientist with 10 years of work experience, including 7 years in academia and 3 years in industry. I am passionate about helping people extract valuable insights from data and seek projects where I can both contribute and continue learning. I enjoy collaborating with colleagues and developing innovative solutions. I have experience in deploying machine learning models, developing web based interactive visualizations, and extracting insights from data.

## Education

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**PhD in Scientometrics**, Leiden University, The Netherlands, 2018 - 2025

- Thesis: Science maps for information retrieval.
- Supervisors: Ludo Waltman, Nees Jan van Eck, Suzan Verberne.
- I developed a prototype of a science map for information retrieval and developed new methods that allow evaluating the quality of such tools in a systematic, high scale and low effort way.

**BSc/MSc in Biochemistry, Cum laude**, Andrés Bello National University, Chile, 2008 - 2016

- Thesis: Identification of enzyme superfamilies significantly mutated in cancer and characterization of their analogous mutations.
- Supervisor: Daniel Eduardo Almonacid.
- I created a statistical test to identify which superfamilies are significantly mutated in cancer, and I characterized the functional effect of a mutation through an innovative use of binding energies in molecular modeling.

## Work experience

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**Data Scientist**, Leiden University, 2025 - ongoing

- Academic position in a project to create alternative approaches for evaluating research.
- I developed a graphical user interface on Google Cloud for running queries on Open Research Information databases using Google BigQuery.
- I designed two new metrics of university productivity that provided insights qualities that were not visible before: Workforce productivity concentration and workforce internal collaboration.

**Teaching Fellow**, Leiden University, 2021 - ongoing

- Academic position to teach data science courses for Master's students.

**Data Scientist**, Leiden University and Fondazione Bruno Kessler, 2024 - 2025

- Academic position in a project to study misinformation interactions between tweets and academic documents.
- I developed a metric that allows to evaluate the misinformation surrounding an academic document by connecting it to the unreliability of Twitter users. I also created a dashboard of several maps of misinformation in science that can be accessed online.

**Data Scientist**, Leiden University and Delft University of Technology, 2021 - 2021

- Academic position in a project to study how social media interacts with academic publications.
- I improved an algorithm of sentiment analysis and created a method to compare the self-organization of academic publications between social media and the scientific community.

**Data Scientist**, CWTS B.V. [www.cwtsbv.nl](http://www.cwtsbv.nl), 2019 - 2021

- Industry position in a research consultancy company.
- I wrote several scientific performance reports for academic clients.

**Data Scientist**, WriteWise [web.writewise.io](http://web.writewise.io), 2017 - 2018

- Industry position in an artificial intelligence company that creates academic writing assistance software.
- I developed and deployed a machine learning based feature of the software, which indicates which words are more frequent in journals of low or high impact factors.

**Data Scientist**, Andrés Bello National University, 2013 - 2016

- Academic position in a project to predict gene functions and find biological significance.
- I created gene sequence similarity networks to find gene functions, and to visualize the project outcomes for our stakeholders.

## Skills

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**Expertise:** Artificial intelligence | Databases | Data science | Information retrieval | Natural Language Processing | Data visualization | Bibliometrics | Scientometrics | Research evaluation | Computational social science | Network science | Bioinformatics | Interdisciplinary research | Research Consultancy | Software Development

**Programming:** Python | SPARQL | LaTeX | SQL | XML | BASH | GCP

**Languages:** English (Expert) | Spanish (Native) | Dutch (B1)

**Personal skills:** Social | Reliable | Helpful | Analytical | Goal oriented | Fast learner

## Publications

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Publications on the use of science maps, characterization of academic productivity, and social dynamics in science and academia.

**ORCID:** <https://orcid.org/0000-0002-4077-1024>