JAVIER TAMAYO LEIVA

Currently looking for a data scientist position

I received my PhD in Genetics and Microbiology from the Pontificia Universidad Católica de Chile. Due to my great interest and curiosity for science and big data I did my PhD in Genetics and Microbiology with a focus on visualization, statistical analysis and modeling, to study microbial processes of genetic dispersion in communities. I really like to approach analyses with the goal of creating and sharing knowledge and value from data. Therefore, I am always eager to learn new topics, techniques and ways to expose information through dynamic tools. Thus, throughout my career I have acquired advanced knowledge in R, WebScrapping, data engineering, report generation -R Markdown and Jupyter Notebook- and applications with R Shiny. I also have knowledge in HTML, CSS and HUGO. And I am currently focused on learning more about Python and SQL.

As a biotechnologist, microbial ecologist and computational biologist, I am an expert in handling NGS methodologies and data, and how to apply these resources to solve research questions with a holistic approach. As a researcher, and data scientist, I am focused on helping to improve data-driven intelligence and decision making from data collection and interpretation. As a data scientist I have a special focus on data management - big data sets, - analysis and visualization techniques as a tool to help facilitate information interpretation and decision making.

EDUCATION

2017

2016

2013

2022

2016 – 2022

Pontificia Universidad Católica de Chile

MSc. Biological Sciences

♥ Santiago, Chile

Universidad Andrés Bello

MSc. Biotechnology Engineering

♥ Santiago, Chile

Universidad Andrés Bello

RESEARCH EXPERIENCE

Laboratory of Microbial Ecology and Extreme Environments,
 Ph.D. Beatriz Díez

Pontificia Universidad Católica de Chile

Santiago, Chile

· Postdoctoral Researcher.

Laboratory of Microbial Ecology and Extreme Environments, Ph.D. Beatriz Díez

Pontificia Universidad Católica de Chile Santiago, Chile

 Research performed on the identification and analysis of the plasmid population of marine microbial communities.

CONTACT INFO

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- TamayoLeiva_J
- TamayoLeivaJ
- https://tamayoleivaj.com
- **)** +(56) 9 684 211 99

For more information, please contact me via email or at my website.

SKILLS

Experienced in microbiology, biotechnology, molecular biology, computational biology, microbial ecology, next generation sequencing.

Experienced in statistical analysis, data analysis and data visualization.

Highly skilled in R, Bash, tidyverse, ggplot2, RMarkdown

Skilled in Blogdown, Shiny, learnr, HTML, CSS, HUGO,

LANGUAGE SKILLS

A

■ Spanish (Native)

A

English (IELTS level B2)

Last updated on 2022-05-18.

2019	■ Laboratory of Microbial Process, Ph.D. Kornelia Smalla Julius-Kühn Institut
2012 2015	 Laboratory of Bioengineering, Ph.D. Thomas Ledger Universidad Adolfo Ibáñez ◆ Santiago, Chile Research conducted on the consequence of inoculating crops with a
	Plant Growth Promoting Rhizobacteria (PGPR) to face abiotic stress
2011	 Laboratory of Developmental Biology, Ph.D. Carmen Gloria Feijoo
	Universidad Andrés Bello ♥ Santiago, Chile
	 Research performed on the analysis of several drug effects on Danio rerio larval development
	TEACHING EXPERIENCE
2022	 Methodological assistant Methodological assistant for degree projects, school of medical
	technology at Pontificia Universidad Católica de Valparaíso.
2021	 Visualization and analysis in R Teacher of Workshop on visualization and analysis in R, applied to statics Courses at Pontificia Universidad Católica de Valparaíso. Remote
2017	Biology of Microorganisms
 2020	teacher's assistant courses at Pontificia Universidad Católica ◆ Santiago, Chile
2017	Introduction to Biochemistry
2020	teacher's assistant courses at Pontificia Universidad Católica ◆ Santiago, Chile
2013 I	Chemical and biology teacher's assistant courses at Universidad Adolfo Ibáñez
2015	Santiago, Chile
2013 I	Bioengineering workshop teacher's assistant courses at Universidad Adolfo Ibáñez
2015	♀ Santiago, Chile
2013	Applied microbiology teacher's assistant courses at Universidad Adolfo Ibáñez
2015	Santiago, Chile
2013	Pioneer's workshop
2014	Teacher of microbiology workshop for school students courses at Universidad Adolfo Ibáñez
	♥ Viña del Mar, Chile

PUBLICATIONS

Proteorhodopsin Phototrophy in Antarctic Coastal Waters
MSphere. https://doi.org/10.1128/mSphere.00525 21
Cifuentes-Anticevic, J., Alcamán-Arias, M. E., Alarcón-Schumacher, T.,
Tamayo-Leiva, J., Pedrós-Alió, C., Farías, L., & Díez, B.

Influence of Estuarine Water on the Microbial Community
Structure of Patagonian Fjords

Frontiers in Marine Science. https://doi.org/10.3389/fmars.2021 .611981

Tamayo-Leiva, J., Cifuentes-Anticevic, J., Aparicio-Rizzo, P., Arroyo, J. I., Masotti, I., & Díez, B.

 Volatile-Mediated Effects Predominate in Paraburkholderia phytofirmans Growth Promotion and Salt Stress Tolerance of Arabidopsis thaliana

> Frontiers in Microbiology. https://doi.org/10.3389/fmicb.2016.01838 Ledger, T., Rojas, S., Timmermann, T., Pinedo, I., Poupin, M. J., Garrido, T., Richter, P., **Tamayo, J.**, & Donoso, R.

CONGRESS

2018

2013

Novedad filogenómica de Cas1 de ambientes termales
Poster for ISME LA

Salgado O., Guajardo-Leiva S., Moya-Beltrán A., Quatrini R., Barbosa C.,
Ridley C., Tamayo-Leiva J., Díez B.

2019 Identification and classification of mobile genetic elements in marine microbial communities

Poster for ISME LA

▼ Valparíso, Chile

Tamayo-Leiva J., Guajardo–Leiva S., Díez B.

 Identification and classification of mobile genetic elements in marine microbial communities from worldwide metagenomics data

 Burkholderia phytofirmans PsJN improves growth of Arabidopsis thaliana under drought stress conditions Poster for XXXVI anual meeting Sociedad de Bioquímica y Biología Molecular de Chile

Puerto Varas, Chile

Tamayo-Leiva J., Rojas, S., Ledger, T.

AWARDS European Molecular Biology Organization (EMBO) Travel Grant: Funding for conferences and training P Heidelberg, Germany National Agency for Research and Development (ANID) Scholarship to attend a congress abroad National Agency for Research and Development (ANID) National Doctoral Scholarship no. 21171048 Santiago, Chile