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 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

2022 — **Pontificia Universidad Católica de Chile**
Ph.D. Biological Sciences. — Santiago, Chile
Molecular Genetics, and Microbiology

2017 — **Pontificia Universidad Católica de Chile**
MSc. Biological Sciences — Santiago, Chile

2016 — **Universidad Andrés Bello**
MSc. Biotechnology Engineering — Santiago, Chile

2013 — **Universidad Andrés Bello**
B.S. Biotechnology Engineering — Santiago, Chile

RESEARCH EXPERIENCE

2022 — **Laboratory of Microbial Ecology and Extreme Environments, Ph.D. Beatriz Díez**
Pontificia Universidad Católica de Chile — Santiago, Chile
• Postdoctoral Researcher.

2016 – 2022 — **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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For more information, please contact me via email or at my website contact form.

SKILLS

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

Spanish (Native)
English (IELTS level B2)

Last updated on 2022-05-18.

2019

Laboratory of Microbial Process, Ph.D. Kornelia Smalla
Julius-Kühn Institut — Braunschweig, Germany
• Research performed on the identification and analysis of the plasmid population of marine microbial communities.

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

TEACHING EXPERIENCE

2022

Methodological assistant
Methodological assistant for degree projects, school of medical technology at Pontificia Universidad Católica de Valparaíso.
Remote

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 | 2020

Biology of Microorganisms
teacher's assistant courses at Pontificia Universidad Católica
Santiago, Chile

2017 | 2020

Introduction to Biochemistry
teacher's assistant courses at Pontificia Universidad Católica
Santiago, Chile

2013 | 2015

Chemical and biology
teacher's assistant courses at Universidad Adolfo Ibáñez
Santiago, Chile

2013 | 2015

Bioengineering workshop
teacher's assistant courses at Universidad Adolfo Ibáñez
Santiago, Chile

PUBLICATIONS

2021

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.

2021

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.

2016

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

2021

Novedad filogenómica de Cas1 de ambientes termales

Poster for ISME LA — Valparíso, Chile

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.

2018

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

Poster for ISME17 — Leipzig, Germany

Tamayo-Leiva J., Díez B.

2013

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

2019

European Molecular Biology Organization (EMBO)

Travel Grant: Funding for conferences and training — Heidelberg, Germany

2018

National Agency for Research and Development (ANID)

Scholarship to attend a congress abroad — Santiago, Chile

2017

National Agency for Research and Development (ANID)

National Doctoral Scholarship no. 21171048 — Santiago, Chile