JAVIER TAMAYO LEIVA

Currently looking for a data scientist position

I am a data enthusiast focused on analytics, modeling and visualization to create and share knowledge and value through data. I am always eager to learn new topics, techniques and ways to apply dynamic tools to share knowledge in the process.

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

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

2016 – 2021 — **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.

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

CONTACT INFO

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SKILLS

Experienced in microbiology, biotechnology, molecular biology, computational biology, microbial ecology, statistical analysis, next generation sequencing data analysis and data visualization.

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

Skilled in Blogdown, Shiny, learnr, HTML, CSS

LANGUAGE SKILLS

Spanish (Native)
English (IELTS level B2)

Last updated on 2021-12-18.

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

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

2013 | 2015 **Applied microbiology**
teacher's assistant courses at Universidad Adolfo Ibáñez
Santiago, Chile

2013 | 2014 **Pioneer's workshop**
Teacher of microbiology workshop for school students courses at Universidad Adolfo Ibáñez
Viña del Mar, 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