

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.
Molecular Genetics, and Microbiology | 📍 Santiago, Chile |
| 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

✉ j.tamayo.leiva@gmail.com
✉ jatamayo@uc.cl
🌐 [Javier Ignacio Tamayo Leiva](#)
🐦 [TamayoLeiva_J](#)
🔗 [TamayoLeivaJ](#)
🌐 <https://tamayoleivaj.com>
📞 +(56) 9

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

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 2022-01-05.

- 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 Valparaíso, 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 Valparaíso, 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