

JESÚS VÉLEZ SANTIAGO

Data Scientist | Data Analyst | Genomic Scientist

I love analyzing and visualizing data to improve our understanding of our surroundings. Besides, I am fascinated by software development and love contributing to the community by creating packages and courses. I am known for being a passionate, curious person, and I am always open to new challenges. Do you have any challenges? Good! Let's do it. Let's be problem solvers.



PROFESSIONAL EXPERIENCE

- 2022
- Data Analyst**
Platzi Inc. Remote work
 - Dashboard definition and evaluation for monitoring crucial metrics and understanding the root causes of change.
 - Extraction, transformation and loading of data for reliable analytics.
 - Work closely with cross-functional teams to quantify the impact of new product features and their interaction with the user.
 - Communication of data-driven insights; going from observations to useful insights.
- 2021
- Bioinformatics specialist**
La Jolla Institute for Immunology San Diego, United States
 - Creation of pipelines for cleaning and analyzing massive single-cell data sets
 - Creation of internal software packages in R that facilitate and ensure the reproducibility of specific analyses.
- 2021
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2020
- Developer of R Software**
Universität Heidelberg Heidelberg, Germany

Over the years, many different regulatory networks and statistical algorithms have been developed, mostly in a fixed combination of one network and one algorithm. To systematically evaluate both networks and algorithms, we developed `decoupleR`, an R package that allows users to apply efficiently any combination provided.
- 2019
- Bioinformatician and Genomist**
Centré de Regulació Genòmica Barcelona, Spain
 - Differential expression analysis between the different conditions (e.g., deletions, overexpression, wild type) of transcriptional factors.
 - Comparison of the expression profiles of genes regulated by transcriptional factors with the information available in *E. coli* gene regulation databases (e.g., RegulonDB).

CONTACT INFO

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SKILLS

- Highly skilled in R using the Tidyverse and Tidymodels metapackages.
- Advanced Python programmer for data analysis and statistics using Pandas and Seaborn.
- Skillful using PostgreSQL and Amazon Redshift databases.
- Bash, Git, and Virtual Environments.
- Storytelling with data.
- Effective data visualization.
- Data analysis.
- Statistical and mathematical modeling.
- Machine learning.


Last updated on 2022-08-25.

TEACHING EXPERIENCE

2022
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2021

• **Data Science Professor**

Platzi Inc.

 Remote work

I worked on the complete design of the structure and content of the following courses, as well as effective entry blog writing and live classes for the Data Science Community.

- Jupyter Notebooks for Data Science Course (More than **10,700 students** impacted).
- Advanced Customization of Environment for Data Science Course (More than **1,700 students** impacted).
- Exploratory Data Analysis Methodology Course (Official release in September of 2022).
- Missing Data Detection for Data Science Course (Official release in September of 2022).
- Handling of Missing Data for Data Science Course (Official release in September of 2022).

2021

• **Teaching Assistant of “Analysis of transcriptomic data of single cell (scRNA-seq) with R and Bioconductor.” Course**

Bioinformatics Meeting in Mexico 2021


 Course material

- Provide support to students.
- Solve configurations of work environments.
- Guide discussions and exercises in breakout rooms.

2020

• **Teaching Assistant of Linear Algebra Course**

Center for Genomic Sciences

 Cuernavaca, Morelos, Mexico

- Monitoring of student performance accompanied by personalized and group tutorials.
- Review of assignments and exams.

EDUCATION AND TRAINING

2021

• **Datacamp Inc.**

Data Scientist Professional

 Certificate


The following knowledge was assessed:

- Data Management
- Model Development
- Exploratory Analysis
- Coding for Production Environments
- Statistical Experimentation
- Communication and Reporting

2021
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2017

• **National Autonomous University of Mexico (UNAM)**

B.S. in Genomic Sciences

 Cuernavaca, Morelos, Mexico

Thesis: Bacterial filamentation: a bet for survival in stressful environments



HONORS AND AWARDS

- 2020 ● **Winner of first “Olimpiadas Platzi: Data Triathlon” – Platzi**
Platzi Inc.  [Award link](#)
- 2020 ● **Support Program for Research and Technological Innovation Projects (PAPIIT)**
National Autonomous University of Mexico (UNAM)  Mexico
- 2019 ● **Program for Special Inter-institutional Cooperation Activities (PAECI)**
National Autonomous University of Mexico (UNAM)  Mexico