

# Andrés Acuña

DATA SCIENTIST · BIOSTATISTICIAN

Geneva, Switzerland - B Work Permit

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## Profile

With over 5 years of experience in R programming and statistical analysis, my passion lies in applying these skills to analyze datasets and extract valuable insights. Strong communication abilities complement my technical expertise, enabling effective collaboration and knowledge sharing.

## Skills

<b>Data Visualisation</b>	Interactive dashboards using Shiny Apps, <b>R markdown/Quarto report writing</b>
<b>Data Analysis</b>	Experimental design, t-tests, ANOVA (analysis of variance), survival analysis, regression analysis, prediction, Sample size calculation and hypothesis testing
<b>Programming</b>	<b>R programming with 5+ years of experience</b> , Base R, R Shiny, Tidyverse,, R package creation, Other programming languages : Bash, Python and SQL
<b>Data Quality</b>	Computerized System Validation in the Biotechnology industry, <b>GMP, GAMP5 guidelines</b> , ISO 13485 requirements for data handling, Developing and implementing Standard Operating Procedures (SOPs)
<b>Version Control</b>	Git and SVN for code management, Data and code documentation
<b>Spoken Languages</b>	<b>English, French, Spanish: Fluent</b> , German: level A2

## Experience

<b>Coople Worker</b> COOPLE AG	<b>Geneva, Switzerland</b> 2023 - 2024
<b>Principal Biostatistician</b> VERACYTE INC.	<b>Marseille, France</b> 05.2019 - 08.2022
<ul style="list-style-type: none"><li>Conducted statistical planning and analysis to evaluate the performance of qPCR kits, leading to 10 successful kit submissions compliant with in-vitro diagnostic regulation.</li><li>Provided statistical counseling to up to five teams/clients developing biotechnology products, ensuring timely completion despite overlapping deadlines.</li><li>Developed and deployed three interactive web applications (Shiny Apps) and two R packages for customized solutions, including data visualization, automated calculations, and reproducible results, in order to optimize data analysis.</li><li>Effectively led a three-member biostatistics team to ensure timely delivery of high-quality reports and results.</li></ul>	
<b>Statistician</b> INSTITUT IMAGE	<b>Chalon sur Saône, France</b> 03.2016 - 07.2016
<ul style="list-style-type: none"><li>Developed and executed a phobia therapy effectiveness evaluation on study participants.</li><li>Conducted statistical analysis to evaluate the effectiveness of a phobia therapy.</li></ul>	
<b>Software Developer (MATLAB)</b> EUROPEAN CENTRE FOR RESEARCH ON HUMAN MOVEMENT	<b>Montpellier, France</b> 04.2015 - 07.2015
<ul style="list-style-type: none"><li>Developed a brain-computer interface utilizing an EEG headset to investigate brain wave patterns through time series analysis.</li><li>Established integration between hardware and software components to extract and analyze signals effectively.</li></ul>	

## Personal Projects

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### WeightTracker

DESIGNER/DEVELOPER

- A **Shiny App** for weight tracking and **data visualization** deployed with Shinyapps.io
- Used tools include modelr, dplyr, purr, shiny, lubridate, plotly, DT, and rsconnect
- Shiny App link [here](#)

 [Andres-AM/WeightTrackR](#)

### Statistical Report

DESIGNER/DEVELOPER

- Example of **statistical report** using LATEX, **Rmarkdown**, ggplot2
- Web page link [here](#)

 [Andres-AM/report-example](#)

### Survival Analysis

DESIGNER/DEVELOPER

- A brief step-by-step **survival analysis conducted in R**
- Used tools include quarto, ggsurvfit, survival, plotly, ggplot2, knitr
- Quarto report link [here](#)

 [Andres-AM/survival-analysis](#)

### NutriPlot

DESIGNER/DEVELOPER

- **Scatter plot** representation for optimized food selection using **Quarto**
- Used tools include dplyr, ggplot2, plotly, DT, quarto
- Report link [here](#)

 [Andres-AM/NutriPlot](#)

### TFScrapper

DESIGNER/DEVELOPER

- **Web scraping tool** designed to retrieve and summarize the most recent case laws from the **Swiss Federal Supreme Court**
- Tools used include **llama3**, dplyr, rvest, polite, purr
- Shiny App link [here](#)

 [Andres-AM/TFScrapper](#)

Sep. 2022 - Present

## Education

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### University of Montpellier

MSC. HEALTH DEVICE ENGINEERING

- Data analysis & statistics, mathematical engineering, signal and image processing

Montpellier, France

2014 - 2016

### University of Montpellier

BSc. BIOTECHNOLOGIES

- Cellular and molecular biology, genetics, microbiology

Montpellier, France

2011 - 2014