

Andrés Acuña

DATA SCIENTIST · BIOSTATISTICIAN

Geneva, Switzerland - B Work Permit

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Profile

With over 3 years of experience in the biotechnology sector developing in vitro diagnostic kits, I understand the requirements of the manufacturing processes. Strong communication abilities complement my technical expertise, enabling effective collaboration and knowledge sharing.

Skills

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

Experience

Coople Worker COOPLE AG	Geneva, Switzerland 2022 - 2024
Principal Biostatistician VERACYTE INC.	Marseille, France 05.2019 - 08.2022
<ul style="list-style-type: none">Conducted statistical planning and analysis to evaluate the performance of qPCR kits, leading to 10 successful kit submissions compliant with in-vitro diagnostic regulation.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.Validated two in-house developed computerized systems using the computerized system validation process in accordance with GAMP5 guidelines, collaborating closely with multidisciplinary teams including Quality Assurance and IT.	
Statistician INSTITUT IMAGE	Chalon sur Saône, France 03.2016 - 07.2016
<ul style="list-style-type: none">Developed and executed a phobia therapy effectiveness evaluation on study participants.Conducted statistical analysis to evaluate the effectiveness of a phobia therapy.	
Software Developer (MATLAB) EUROPEAN CENTRE FOR RESEARCH ON HUMAN MOVEMENT	Montpellier, France 04.2015 - 07.2015
<ul style="list-style-type: none">Developed a brain-computer interface utilizing an EEG headset to investigate brain wave patterns through time series analysis.Established integration between hardware and software components to extract and analyze signals effectively.	

Personal Projects

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

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

References

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