





# JUSTIN R. MEDINA

## S R . DATA MANAGEMENT ASSOCIATE

 (909) 952-5369  Justinrmedina@outlook.com  San Diego, CA 92102  [linkedin.com/in/justinrmedina](https://www.linkedin.com/in/justinrmedina)

### EXPERIENCE

#### October 2022 – December 2023

##### Sr. Data Management Associate – Cibus

- Developed, managed, and maintained Product Development database used as central repository for all field and greenhouse trialing across several crops including germplasm/seed inventory & experimental data
- Provided ongoing training & technical assistance of various database modules to new & existing users (i.e. training exercises, SOPs, live demos, troubleshooting)
- Worked with Product Development stakeholders to develop daily workflows & improvements to accelerate database integration within functional teams
- Collaborated w/ other internal database support teams to create data handoff templates & assess opportunities for cross database integration
- Developed, managed, and maintained executive level reports, dashboards, and web applications for end-to-end visibility of company wide data pipeline using Power BI & R Shiny
- Performed data analyses for multi-location field trials, greenhouse experiments, ad hoc requests w/ custom, ready-to-publish visuals & reports using R Studio
- Supported Product Development teams during peak season for field trialing (i.e. planting, data collection, sampling, seed packaging/inventory)

#### January 2016 – October 2022

##### Research Associate – Cal Poly Pomona

- Plant breeding for nitrogen and water use efficiency (NUE, WUE) through genomics and physiological genetics in lettuce
- Performed hand pollinations, gel assays, elemental analysis, physiological measurements from plants grown in greenhouse/field
- Managed research fields for genotype testing including irrigation, weed/pest-control, cultivation, sampling, harvest
- Responsible for experimental design, plant propagation, physiological measurements, data analysis using R Studio/SAS Studio, and interpretation of data as part of master's thesis
- Performed regular maintenance on scientific instruments
- Worked with and analyzed large data sets consisting of numerical and categorical data using MS Excel, JMP, SAS Studio, and R Studio
- Managed personnel on procedures/protocols to complete tasks within designated time frame

#### February 2020 – May 2022

##### Teaching Associate – Cal Poly Pomona

- Taught Biostatistics Laboratory (BIO 2110L) and Statistics for Biologist using R (BIO 5100L)
- Developed data analysis assignments from data sets spanning many scientific disciplines using R Studio, R Markdown, and MS Office

### EDUCATION

California State Polytechnic University, Pomona

- M.S. Biological Sciences  
(August 2018 – May 2022)
- B.S. Biological Sciences, General Biology  
(August 2015 – May 2018)

### KEY SKILLS

- Programming (R, SAS, SQL)
- SAS Certified
- MS Office Suite (LinkedIn Verified)
- MS Access/SQL Server/LIMS/Oracle/AWS/Genovix (Agrobase)
- Biostatistics
- Dashboards/Reports
- Agronomy (field testing)
- Research Project mgmt.
- Plant breeding/biology
- Teaching
- Application Development
- Inferential Statistics
- Experimental Design
- Data Management
- Data Visualization/Analytics
- Data Mining
- Relational Databases
- Scientific Writing
- Public Speaking
- Troubleshooting
- Team Oriented
- Learn New Skills Quickly
- Logical Thinker
- Proven Self-starter

- Used R Studio and MS Office to teach statistical concepts in the following topics: variable classification, data entry/management, experimental and sampling design, ANOVA, t-tests, correlation, simple linear regression, ANCOVA, chi-squared test, contingency tables, 95% CIs, and non-parametric alternatives
- Troubleshoot code/data/technology issues for students in short periods of time

## June 2021 – August 2021

### Data Scientist Intern – Pfizer

- Developed a Resource Portal using SharePoint to connect users to data tools (Spotfire, R Shiny, Alteryx, Tableau, Dataiku, Alation) across DSRD
- Implemented a data catalog for selected DSRD databases by collecting, organizing, and inputting metadata using SQL server, Microsoft Excel, and Alation data cataloging services
- Assisted in the development of a homepage for a Portfolio Tracker using R Studio, R Shiny, and GitHub
- Partnered with other Pfizer business lines and stakeholders to complete the Resource Portal and data catalog

## REFERENCES

David Still, PhD

Email: [dwstil@cpp.edu](mailto:dwstil@cpp.edu)

Cell: (909) 630-9328

Jeremy Claisse, PhD

Email: [jtclaisse@cpp.edu](mailto:jtclaisse@cpp.edu)

Cell: (808) 551-9658

Jameson Hall, MS

Email: [jhall@cibus.com](mailto:jhall@cibus.com)

Cell: (916) 542-5768

## AWARDS

- ARI - HSI Science Fellowship 2020
- Dean's List 2017