MARTIN J FRIGAARD

R Programmer | Shiny Developer | University Instructor

https://www.linkedin.com/in/mjfrigaard/ • https://github.com/mjfrigaard • https://mjfrigaard.github.io/

Experience

04/2019 - Present

12/2022 - 11/2023

09/2020 - 12/2022

08/2021 - 12/2022

07/2018 - 10/2020

08/2016 - 06/2020

Paradigm Data Group, LLC

Co-founder, Data Scientist

Data science solutions and training
Provide data analytic solutions and application development from <u>Posit certified instructors</u> for 10+ clients

Deliver custom trainings on data management, analysis, visualization, Shiny application development

- View example workshop: <u>https://mjfrigaard.github.io/ph-lacounty-r/</u>
- View example application: <u>https://chicodatascience.shinyapps.io/CFO_SOW_Dashboard_FFY22-24/</u>

Atorus Research

Data Visualization Engineer

Atorus provides open-source clinical data science solutions.

- Technical lead for 10+ Quantitative Decision Making (QDM) Shiny applications and R packages using Posit Connect
- Developed and delivered training materials for advanced Shiny applications and R packages with Posit Workbench and Posit Cloud
- Created methods for developing internal R packages containing Shiny applications
- View example training materials: <u>https://mjfrigaard.github.io/dev-test-shiny/</u>

BioMarin

Senior Clinical Programmer

BioMarin develops therapeutics for life-threatening rare genetic diseases.

- Designed and deployed Shiny applications for Centralized Statistical Monitoring (CSM) group
- Created internal R packages for streamlining CSM Shiny application development
- Delivered 15+ training materials covering R programming, data processing, visualizations, and developing Shiny applications using Posit
 Workbench and Posit Cloud
- View example training materials: https://mjfrigaard.github.io/bmrn-tutorials/
- View example application: <u>https://mjfrigaard.github.io/dfdiffs/</u>

California State University, Chico

Instructor

Journalism 301 (Data Journalism) is an upper-level 16-week data visualization, critical thinking and research course

- Designed course syllabus, lecture content, and assignments
- View previous course website: https://mjfrigaard.github.io/FA22-JOUR301/

Quesgen

Shiny App Developer

Lead developer for the Diabetes Technology Society's (DTS) Blood Glucose Monitor Surveillance Program

- The application displays a 3-dimensional interpretation of the risk based on 200+ experts in diabetes care
- View application: <u>https://www.diabetestechnology.org/seg/</u>

Storybench

Author (Data Journalism in R)

Storybench is a blog featuring digital storytelling tips, tricks, and takeaways from Northeastern University's School of Journalism.

- Developed and published the R/data science tutorials
- 2019 shortlist for GEN Data Journalism Website of the Year
- Communicated statistical methods to non-technical audiences
- View writing examples: https://www.storybench.org/author/martinfri/

Education

University of California, San Francisco Clinical Research (Master's Degree)	2015 - 2017
California State University, Chico Kinesiology (Master's Degree)	2009 - 2011
California State University, Chico Exercise Physiology (B.Sc.)	2007 - 2009

US Army

Combat Medic/Healthcare Specialist (NCO)

- Administered emergency medical treatment
- Initialized stabilization, treatment, and triage
- Monitored patients vital signs during transportation
- Assisted with outpatient and inpatient care and treatment

Non-commissioned officer responsibilities

- 1) assisting with outpatient care and supervision of facilities under the supervision of a physician or physician's assistant
- 2) establishing priorities for medical trainings
- 3) providing guidance, training, and supervision to subordinates

Skills

Statistics • Epidemiology • Research • Data Management • Data Visualization • Data Analysis • Data Models • Software Documentation • Functional Requirements • Technical Requirements • Public Speaking • Written Communication • Technical Writing • Problem Solving



Shiny App Package (shinyap)

https://mjfrigaard.github.io/shinyap/

Support package for Shiny App-Packages book

- Link to book: <u>https://mjfrigaard.github.io/shiny-app-pkgs/</u>
- Contains 30+ application demos of the full application development cycle (modules, tests, documentation, etc.)
- Demonstrates popular Shiny frameworks (golem, leprechaun, and rhino) and novel functions for detecting R packages vs. Shiny app-packages

USDA/SNAP/CalFresh Outreach Dashboard

https://chicodatascience.shinyapps.io/CFO_SOW_Dashboard_FFY22-24/

Web application for monitoring USDA/SNAP grant progress

- Integrated data for 20+ subcontractors throughout the state of California
- · Users can view overall performance metrics by county, take notes with Markdown, and download a customized PDF or Word report

Good Enough R Practices (gerp)

https://mjfrigaard.github.io/gerp/

R package designed to help new users organize data science/journalism projects

- Implementation of 10 best practices as documented in 'Good enough practices in scientific computing'
- Contains 15+ functions for quickly creating new data projects (folders structure, file names, etc.)

Surveillance Error Grid (Shiny App)

https://www.diabetestechnology.org/seg/

The Surveillance Error Grid (SEG) is a graphical tool for clinical risk assessments of blood glucose monitor errors.

• The application assigns a unique risk score to each blood glucose monitor data point when compared to a reference value based on input from 200+ diabetes clinicians.

Selected talks, books, and publications

R/Pharma workshop

Developing & Testing Your Shiny Application

https://mjfrigaard.github.io/dev-test-shiny/

Workshop materials for R/Pharma presentation that covers developing a Shiny application as an R Package (with a focus on writing efficient tests).

2023

https://mjfrigaard.github.io/shiny-app-pkgs/ An open field manual for developing Shiny appl	ications as R packages.		
Carmen A. Peralta, Martin Frigaard, Leticia Ro Chao, Phillip Chiao, Kimberly Lui, Michael G.	of Care among Nondiabetic Veterans with H olon, Karen Seal, Delphine Tuot, Josh Senyak, I	owell Lo, Neil Powe, Rebecca Scherzer, Shirley	
Ojo-publico Treating Covid-19: When enthusiasm trum Martin Frigaard & Aleszu Bajak <u>https://ojo-publico.com/1903/treating-covid-19</u> A report on several drugs being used to treat CO evidence, and interviews from doctors in Peru, B	9-when-enthusiasm-trumps-evidence DVID-19 in Latin America. Covers side effects, adv	2020 erse reactions, new clinical trials, current clinical	
Awards			
Y Army Commendation Medal (ARCOM)	🛧 Army Good Conduct Medal	S University Dean's List	
Achievements			
Military service Proud to serve as a medic in the Army Reserve during Operation Enduring Freedom	Tenacity & persistence Self-taught programmer (R, SQL, & Python)	Constant self-improvement I seek input and welcome feedback on my work and performance	
References			
Vadim Tantsyura Sr. — Email: <u>vadim</u> Director, Data Quality Phone: (203) Science and Programming BioMarin	<u>.tantsyura@gmail.com</u> 233-5859		
Aleszu Bajak Director of - Email: aleszu Data Visualization Urban Phone: (216) Institute	ı.bajak@gmail.com 644 - 1952		

2022 - Present

Shiny App-Packages: Getting your Shiny app into an R package