DANILO TRINIDAD PÉREZ- RIVERA

Public Health Analyst

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Coamo, PR

SUMMARY

Resourceful Computational Scientist with sharpened experience pioneering innovative data analytics across diverse fields like Social Media, Neuroscience, and Epidemiology. Proficient in conflict resolution, record oversight, and crisis communications. Adept at enhancing revenue, team efficiency, and instituting sustainable operational policies. Skilled in motivating teams, fostering stakeholder relations, and ensuring continued operational success.

EXPERIENCE

Epidemiologist & COVID-19 Coordinator

ManpowerGroup

📅 07/2020 - 05/2021 📍 San Juan, PR

- Established and managed the Data Analyst division for the Municipal Contact Tracing System, overseeing a team of 10.
- Coordinated schedules, recruited statisticians for evidence-based policy development in 78 municipalities, and conducted outbreak prevention training.
- Supervised investigations, communicated trend data for policy- making, and coordinated grant drafting exceeding $10 million.
- **Supervised by Dr. Fabiola Cruz Lopez.**

Computational Sciences Graduate Fellow

DOE - Argonne National Laboratory

📅 05/2022 - 08/2022 📍 Chicago, IL

- Contributed to the development of Large Language Models to student the Genomic Evolution of SARS-COV-2.
- **Supervised by Dr. Arvind Ramanathan.**

Group Lead

Social Media Analytics Interest Group

📅 08/2017 - 06/2020 📍 Remote

- Conducted advanced analysis of social media discourse, publishing pre-print articles. Group activities suspended due to participants joining COVID-19 initiatives.
- **Consulted with Dr. Alexis R. Santos-Lozada.**

PRESENTATIONS

Society for Neuroscience (2023)

Constructing a hierarchical Kalman filter for extraction of adaptive neural population dynamics. Network Computations: Data Analytics and Statistics Poster Session. **Danilo T. Perez Rivera**, Shannon Schiereck, Christine M. Constantinople, & Cristina Savin.

National Diversity in STEM Conference (2022)

SACNAS Keynote Panel - What does Ciencia Boricua mean to you? **Danilo T. Perez Rivera** & Edmy Ayala. Moderated by Rosa Ficek.

DOE CSGF Program Review (2022)

Machine learning-driven multiscale modeling of genomic evolution of SARS-CoV-2. **Danilo T. Perez-Rivera**, Max Zvyagin, Alex Brace, Kyle Hippe & Arvind Ramanathan.

- Awarded the ACM Special Gordon Bell Prize for COVID-19 Research for this work.

EDUCATION

B.Sc. – Chemistry

University of Puerto Rico At Cayey, Puerto Rico

06/2013 - 08/2017

- Student Council President (2017)
- Undergraduate Student of the Year - College of Chemists of Puerto Rico (2016)
- Licensed Chemist #6152 and member of the College of Chemists of Puerto Rico

Ph.D. – Neural Science

Center for Neural Science, New York University, New York

08/2020 - Present

- Dean's Fellow (2020-2024)
- Department of Energy Computational Sciences Graduate Student Fellow (2020- 2024)
- McCracken Fellow (2020-2025)
- PR CEAL Adriana Pons Research Scholarship (2024)

SKILLS

- Interdisciplinary quantitative analysis.
- Evidence-based policy recommendations.
- Direct experience in outbreak analysis, testing strategy evaluation and epidemic modeling.
- Ability in multiple programming languages and data visualization suites, including but not limited to Python, R, PowerBI, Tableau and others.
- Public speaking.

Ideal skill scenario: Leveraging Big Data to extract meaningful insights by employing cutting-edge Machine Learning techniques in the context of public health, enhancing the efficiency of data-driven decision-making.

PUBLICATIONS

American Journal of Public Health (2024)

Ensuring Community Engagement in Disease Surveillance: The Municipal Case Investigation and Contact Tracing System for COVID-19 in Puerto Rico. Fabiola Cruz Lopez, **Danilo T. Perez Rivera**, Joshua Villafane Delgado, Monica Robles Fontan, Jose Zavala González & Lorenzo González Feliciano.

SocArxiv Pre-Print (2019)

Engaging for Puerto Rico: #RickyRenuncia (and #RickySeQueda) during El Verano del 19 and digital identities. **Danilo T. Perez Rivera**, Christopher Torres-Lugo, & Alexis R. Santos-Lozada.

Mathematical Biosciences and Engineering (2016)

Development of a Computational Model of Glucose Toxicity in the Progression of Diabetes Mellitus. **Danilo T. Perez Rivera**, Veronica L. Torres-Torres, Abraham E. Torres-Colon & Maytee Cruz-Aponte.