Giovanni Marrero
Data Analyst | Laboratory Operations Expert

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Professional Summary

Results-oriented data professional with 5+ years of experience optimizing laboratory operations and enhancing project workflows. Demonstrated expertise in analyzing complex datasets, managing multimillion-dollar budgets ($10M+) and delivering actionable insights to drive operational efficiency and decision-making. Recently earned an M.S. in Analytics, developing advanced proficiency in Python, SQL, and Tableau. Adept at bridging data analysis with strategic objectives to optimize business performance.

Key Skills

- **Technical Skills**: Python | R | SQL | Tableau | Snowflake | Microsoft Excel | JIRA | SAP
- **Data Analysis:** Statistical analysis, trend identification, data cleaning, and data visualization
- **Project Management:** Process optimization, resource allocation, and workflow management
- **Data Storytelling:** Deliver insights to stakeholders through clear, impactful reporting to diverse stakeholders
- **Tools and Platforms:** Microsoft Office | Google Workspace | Arena Simulation | Adobe Photoshop

Professional Experience

Laboratory Operations Manager | Broad Institute of MIT & Harvard | Cambridge, MA | June 2021 – Present
- Manage and streamline laboratory budgets exceeding $10M annually, implementing cost-saving measures and reallocating resources for maximum efficiency.
- Design and maintain inventory databases for physical and digital assets, enhancing data accuracy and accessibility.
- Analyze laboratory workflows, identifying trends and opportunities, increasing productivity for 30-person research team.
- Develop and present actionable data-driven reports to leadership, enabling strategic decision-making in lab operations.
- Collaborate with stakeholders to improve research capabilities, troubleshoot equipment issues, and streamline process efficiency.
- Create and manage DNA-barcoded assay workflows, ensuring timely and accurate data generation for cutting-edge spatial genomics projects.

Research Technician II & Lab Manager | University of Pittsburgh | Pittsburgh, PA | June 2019 – June 2021
- Collected, analyzed, and presented experimental data for research publications, including visualization and statistical reporting, ensuring accuracy and clarity in statistical reporting.
- Managed rodent colonies by optimizing breeding plans and tracking health metrics, leading to improved research reliability and outcomes.
- Trained and supervised lab staff, implementing streamlined workflows for efficient data collection and analysis, enhancing overall team productivity.

Market Research Consultant | Ovation.io | Cambridge, MA | Sept 2020 – Mar 2021
- Conducted in-depth analysis of market research across 8,000 clinical laboratories, analyzing testing capabilities and genetic targets.
- Developed and implemented a comprehensive data repository, enabling machine learning applications and advancing business intelligence goals.

Education

M.S. in Analytics | Georgia Institute of Technology | 2021 – 2024
- Focus: Business Analytics, Data Analysis, Statistics, Machine Learning

B.S. in Biotechnology | Minor in Entrepreneurship | Syracuse University | 2015 – 2019
- Coronat Scholar | *cum laude*

Leadership

Treasurer | BroadRATS | Broad Institute of MIT & Harvard | June 2021 – July 2023
- Managed a $16.5K budget, strategically allocating resources to support career development programs and events for early-career scientists.
- Negotiated annual budget increases, aligning fiscal decisions with organizational goals, securing additional funding to expand program offerings.
- Delivered cost-efficient solutions for subcommittees, enabling successful execution of social events and professional development programs within budget constraints.

Publications

Beppu, L., Qu X., **Marrero, G.**, et al. "Blimp-1 in adipose resident Tregs controls adipocytes beiging and obesity" *The Journal of Immunology. 2020; **204**: 81.9.*

Wu, S., et al. **[including Marrero, G.]** "Cortical Somatostatin Interneuron Subtypes Form Cell-Type Specific Circuits" *Neuron. 2023; **111***: 2675-2692.

Russell, A., et al. **[including Marrero, G.]** "Slide-Tags: scalable, single-nucleus barcoding for multi-modal spatial genomics" *Nature 2024; **625***: 101-109.

Chung, H., et al. **[including Marrero, G.]** "Aging disrupts spatiotemporal coordination in the cycling ovary" ***[UNDER REVIEW]***.

Chen, B., et al. **[including Marrero, G.]** "Cognitive function depends upon Satb2 gene dosage in cortical projection neurons" ***[UNDER REVIEW]***.

Hu, c., et al. **[including Marrero, G.]** "Scalable imaging-free spatial genomics through computations reconstruction ***[UNDER REVIEW]***.