



Julian Pacheco

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Background

Biomedical researcher with over four years of experience in HIV immunology and nonhuman primate models at OHSU's Vaccine and Gene Therapy Institute. Collaborating across academic, clinical, and international teams taught me how much diverse perspectives matter in solving complex scientific problems. Across every team I've worked in, I noticed the same issue: techniques kept evolving, each producing more data, but most labs weren't adequately trained to analyze all of it. That gap, and my existing pull toward the analytics and computer science side, led me to a master's in data science at Willamette University. That intersection of biology and machine learning is where I work now, applying computational methods to immunology datasets that have outgrown conventional analysis.

Technical Skills

- **Languages:** Python, R, SQL
- **Machine Learning & Stats:** scikit-learn, TensorFlow, NLP, classification, statistical modeling, longitudinal analysis
- **Data Engineering:** Airflow, dbt, DuckDB, PostgreSQL, pandas, S3, ETL pipeline design
- **Tools & Deployment:** Git, Flask, R / Shiny, Railway, Beekeeper Studio, VS Code

Education

Willamette University
M.S. in Data Science

Salem, OR
August 2026

Portland State University
B.S. in Biology

Portland, OR
June 2017

Scientific Research Experience

Vaccine & Gene Therapy Institute (OHSU)
Research Assistant

Beaverton, OR
2021 to Present

- Generated and analyzed high dimensional immunology datasets from human and nonhuman primate studies, developing analytical workflows for multiparameter flow cytometry and longitudinal immune monitoring.
- Produced and integrated longitudinal datasets spanning flow cytometry, viral load, cytokine, and molecular assays to investigate treatment response, immune function, and viral reservoir dynamics.
- Collaborated across multidisciplinary research teams to transform complex biological data into scientific findings, therapeutic insights, and evidence supporting translational research programs.

Bureau of Land Management
Biological Field Technician (Contract)

Lakeview, OR
2020

- Generated and curated ecological and wildlife monitoring datasets for a multi year restoration study evaluating sagebrush ecosystem recovery following juniper removal.
- Integrated geospatial, telemetry, vegetation, and environmental data to assess habitat utilization patterns and ecosystem response to land management interventions.
- Contributed to research findings that informed conservation policy and land management decisions, supporting peer reviewed publication and stakeholder recommendations.

Publications

Hiroshi Takata, Julie L. Mitchell, **Julian Pacheco**, et al, (2023) "An active HIV reservoir during ART is associated with maintenance of HIV specific CD8+ T cell magnitude and short lived differentiation status", Cell Host & Microbe, Volume 31, Issue 9, 1494 - 1506.e4.