JP Flores

PhD candidate in Bioinformatics & Computational Biology interested in 3D genome organization and gene regulation. I'm passionate about innovation in science and diversity, equity, and inclusion (DEI).

Download CV as a PDF

CONTACT

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SKILLS

HTML

CSS

Git

Photoshop

Illustrator

*Made with the R package **pagedown**.*

Source code available: github.com/jpflores-13/cv.

Updated: 2023-12-17.

EDUCATION

2025 | 2021

PHD CANDIDATE, BIOINFORMATICS & COMPUTATIONAL BIOLOGY

UNC Chapel Hill — Chapel Hill, NC

- Graduate Certificate in Innovation for the Public Good

2021 | 2017

BA, CELLULAR & MOLECULAR BIOLOGY (PUBLIC HEALTH MINOR)

Occidental College — Los Angeles, CA

RESEARCH EXPERIENCE

2025 | 2022

GRADUATE RESEARCH ASSISTANT

Phanstiel Lab (UNC-CH School of Medicine) — Chapel Hill, NC

- Using computational and wet-lab techniques to investigate the role of 3D chromatin structure in response to environmental stress
- Developing a user interface for the R/Bioconductor data visualization package, plotgardener

2021 | 2017

UNDERGRADUATE RESEARCHER

Schulz Lab (Occidental College Department of Biology) — Los Angeles, CA

- Utilize techniques such as DNA isolation, PCR, gel electrophoresis, and HPLC to find medical relevance of venom
- Conduct fieldwork in Kauai to study and capture venomous cone snails

PROFESSIONAL EXPERIENCE

2021 | 2020

DATA SCIENCE INTERN

University of Utah David Eccles School of Business Sorenson Impact Center — Salt Lake City, UT

- Work alongside the data science team to provide customized data analysis for clients, write code, learn best practices around data sharing and security, as well as create data visualizations and dashboards. Familiarity with Tidyverse set of packages within the R programming language

2021 | 2020

STUDENT MANAGER OF THE STUDENT COALITION FOR HIGHER EDUCATION

University of Utah David Eccles School of Business Sorenson Impact Center

Salt Lake City, UT

AWARDS & ACCOLADES

2025 | 2021

GRADUATE

- Occidental's 18 Young Scientists to Watch (2023)
- Keystone Symposia Chromatin Architecture in Development & Human Health Underrepresented Trainee Scholarship ($1200)(2023)
- UNC Department of Genetics Retreat Poster Award (2022)
- National Science Foundation Graduate Research Fellow(2021)

2021 | 2017

UNDERGRADUATE

- Spotify Next Wave Award Winner (2021)
- Trevor Moawad Leadership Award (2021)
- Dean's Award: Service (2021)
- Capstone Student Leader of the Year Award (2021)
- Lucille Y. Gilman Memorial Award (2021)
- rstudio::global(2021) Diversity Scholar (2021)
- John W. McMenamin Award (2020)

FEATURES & INTERVIEWS

2025 | 2021

GRADUATE

- An Interview of Me by JP and Sarah: My R Journey, Hobbies, and the R Community (2023)
- California private colleges fear affirmative action ban as Supreme Court prepares to rule (2023)
- Writing About Race in Biological Science (2023)
- 18 Young Scientists to Watch (2023)
- Three Win NSF Graduate Research Fellowships (2022)
- John Patrick Flores'21: National Science Foundation Graduate Research Fellowship (NSF GRFP) (2022)

2021 | 2017

UNDERGRADUATE

- New biology course explores the COVID-19 pandemic in real time (2020)
- Meet JP Flores - Occidental Baseball (2020)
- S2, Episode 1 - Off the Bench featuring Antonio Andrade and JP Flores (2020)
- OxSEA seeks to clean the ocean and educate LA's youth (2019)
- Staying for the summer: Undergraduate Research Center provides students and faculty with summer research opportunities (2019)

I am passionate about empowering the next generation of diverse scientists, becuase talent is equally distributed but opportunity is not.

TEACHING EXPERIENCE

2024

PROMOTING INCLUSIVITY IN THE RESEARCH ENVIRONMENT

JEDI Leadership Fellows Program — Chapel Hill, NC

- Workshop allowing researchers to recognize systemic barriers to inclusion and their impacts on individuals and society, take concrete steps to build supportive relationships with those from marginalized groups, and use their advantages to promote an equitable lab environment

2023

BCB 723 STATISTICAL GENETICS & GENOMICS

Curriculum in Bioinformatics & Computational Biology, Department of Genetics — Chapel Hill, NC

2023

HOW TO LEARN TO CODE

University of North Carolina at Chapel Hill — Chapel Hill, NC

- Summer miniseries about the basics of computer programming/coding for biological research
- Curriculum Development Team & Teacher

2023

WINSPIRE DANCING WITH DATA!

University of North Carolina at Chapel Hill — Chapel Hill, NC

- Using the programming language R, high school students with marginalized gender identities, worked with data from Spotify. We explored which songs are the best to dance to, do homework to, cry to, and everything in between. Students gained experience in having fun in science, data wrangling & manipulation, data visualization, and science communication

2023

WINSPIRE DIGGING DEEPER

University of North Carolina at Chapel Hill — Chapel Hill, NC

- Workshop covering the importance of diversity, equity, and inclusion (DEI) in science for high school students with marginalized gender identities

2023

ACADEMIC SUPPORT PROGRAM FOR STUDENT-ATHLETES TUTOR

Office of the Executive Vice Chancellor and Provost - UNC-CH

2021

BIO 268 BIOSTATISTICS

Occidental College Department of Biology — Los Angeles, CA

To advance equity and inclusion in science in the future, I will utilize a multi-pronged approach for change: “bottom-up” approaches such as peer mentoring and “top-down” approaches such as using my power to advocate for and implement data-driven and equity-focused policy.

TRAINING & CERTIFICATIONS

2022

EFFECTIVE MENTORING TRAINING

- Foundation for developing competencies and skills in effective communication, aligning expectations, assessing progress and understanding, addressing equity and inclusion, fostering independence, cultivating ethical behavior, and being able to articulate a mentoring philosophy to others

ACADEMIC ARTICLES

2023

ABERRANT NUP98 CONDENSATES ACTIVATE LEUKEMOGENIC GENES VIA DISCRETE GENOMIC ENGAGEMENT

Submitted

- Jing Li, Shizhe Liu, Sunghwan Kim, Jacob Goell, Zachary Allen Drum, **John Patrick Flores** , Alex J. Ma, Barun Mahata, Mario Escobar, Jeong Hyun Ahn , Rosa Selenia GuerraResendez, Yuhao Zhou, Bo Yu, Michael R. Diehl, Gang Greg Wang, Douglas H. Phanstiel, and Isaac B. Hilton

2022

ADVANCE U.S. INTERNATIONAL DIPLOMACY EFFORTS BY EXPANDING ELIGIBILITY IN THE EMBASSY SCIENCE FELLOWS PROGRAM

Journal of Science Policy and Governance

- Authored with Rami Major and Rachel Cherney

NON-ACADEMIC ARTICLES

2021

ZOOM FATIGUE: JUST ONE COVID-19 COLLEGE EXPERIENCE CHALLENGE

Inside Higher Ed

2020

LETTER TO THE EDITOR: OCCIDENTAL STUDENT-ATHLETES DEMAND ACCOUNTABILITY

The Occidental

INVITED TALKS

2023

THE ROLE OF 3D CHROMATIN STRUCTURE IN RESPONSE TO ENVIRONMENTAL STRESS

Invited talk, McDaniel College Department of Biology — Westminster, MD

2023

THE PEOPLE OF POSIT: BRINGING PERSONALITY TO R PACKAGES

posit::conf(2023) — Chicago, IL

2021

STUDENT-EQUITY-CENTRIC: A VISION FOR THE FUTURE OF HIGHER EDUCATION

University of Utah David Eccles School of Business Sorenson Impact Center

Salt Lake City, UT

POSTER PRESENTATIONS

2023

HYPEROSMOTIC STRESS INDUCES COMPLETE REWIRING OF CHROMATIN INTERACTIONS

UNC 6th Annual Chromatin & Epigenetics Symposium

Chapel Hill, NC

2023

HYPEROSMOTIC STRESS INDUCES COMPLETE REWIRING OF CHROMATIN INTERACTIONS

Keystone Symposium: Chromatin Architecture in Human Disease & Development

Victoria, BC

2023

HYPEROSMOTIC STRESS INDUCES COMPLETE REWIRING OF CHROMATIN INTERACTIONS

10th Annual Mid-Atlantic PREP & IMSD Research Symposium

Blacksburg, VA

2023

HYPEROSMOTIC STRESS INDUCES COMPLETE REWIRING OF CHROMATIN INTERACTIONS

5th Annual Dr. Samuel M. Nabrit Conference for Early Career Scholars

Providence, RI

2023

HYPEROSMOTIC STRESS INDUCES COMPLETE REWIRING OF CHROMATIN INTERACTIONS

Duke Biomolecular Condensates Symposium

Durham, NC

2019

FROM SEQUENCE TO ACTIVITY: SYNTHETIC NEUROEXCITATORY PEPTIDES FROM FISH-HUNTING CONE SNAILS

Southern California Conference for Undergraduate Research

San Pedro, CA

2019

FROM SEQUENCE TO ACTIVITY: SYNTHETIC NEUROEXCITATORY PEPTIDES FROM FISH-HUNTING CONE SNAILS

Society for Intergrative and Comparative Biology Annual Meeting

Austin, TX

2018

FROM SEQUENCE TO ACTIVITY: SYNTHETIC NEUROEXCITATORY PEPTIDES FROM FISH-HUNTING CONE SNAILS

Society for Neuroscience Annual Meeting

San Diego, CA

SERVICE

EXTERNAL SERVICE

2023 | 2017

- Biomedical Science Advisory Board Member, Chapel Hill - Carrboro City Schools Project Lead the Way
- Peer Mentor, Graduate Mentorship and Assistance Program Philippines (GradMAP)
- Peer Mentor, Association of Filipino Scientists in America (AFSA)
- Junior Varsity (JV) Baseball Coach, Chapel Hill High School
- Pen Pal, Letters to a Pre-Scientists
- Host/Creator, From where does it STEM?
- Trained Facilitator, edX: The Inclusive STEM Teaching Project

INSTITUTIONAL SERVICE

2023 | 2017

- NCAA Division III Baseball Team, Occidental College Dept. of Athletics
- Student-Athlete Advisory Commitee, Occidental College Dept. of Athletics
- Diversity and Equity Board, Associated Students of Occidental College
- Students for Equity & Advocacy in STEM, Occidental College
- Justice, Equity, Diversity, Inclusion (JEDI) Committee, Occidental College Dept. of Athletics
- ViSTA (Volunteers in Service of Tiger Admission), Occidental College Alumni
- Alumni Secretary, Occidental College Class of 2021
- Leadership Group, UNC Biological and Biomedical Sciences Program
- Student Admissions Commitee, UNC Biological and Biomedical Sciences Program
- Diversity, Equity, & Inclusion (DEI) Advisory Committee, UNC Genetics
- Scientist Ambassador, North Carolina DNA Day Connect
- Students in Training, Academia, Medicine, and Research Program (STAHR), UNC School of Medicine Office of DEI
- Lead Peer Mentor, GeNe F1 UNC Department of Genetics
- Steering Commitee Member, UNC Curriculum in Bioinformatics & Computational Biology
- Peer Mentor, North Carolina A&T Bridges to the Doctorate Program
- Peer mentor, Summer Undergraduate Research Experience in Biological Mechanisms (SURE-REU)
- First-Year Group (FYG) Peer Mentor, UNC Biological & Biomedical Sciences Program
- Admissions Diversity Advocate, UNC Office of Graduate Education
- Strategic Planning Steering Committee, UNC School of Medicine
- Bench/ Peer Mentor, Educational Pathways in Genomics Research (EDGE) at UNC
- Peer Mentor Advisory Board, Initiative for Maximizing Student Development (IMSD)