

# JP Flores

PhD candidate in Bioinformatics & Computational Biology interested in mechanisms of gene regulation. I'm passionate about innovation in science and diversity, equity, inclusion, and accessibility (DEIA).



Download CV as a PDF

## CONTACT

he/him  
jpflores013@gmail.com  
jpflores\_31  
github.com/jpflores-13  
jpflores.rbind.io  
linkedin.com/in/john-patrick-flores

## SKILLS

HTML  
CSS  
Git  
Photoshop  
Illustrator

Made with the R package  
**pagedown**.

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

Updated: 2024-07-20.

## 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

· Developing and applying software in R, performing microscopy (DNA FISH) and -omics techniques (Hi-C, RNA-seq, ATAC-seq, CUT&RUN/ChIP-seq) to investigate the role of 3D chromatin structure in response to environmental stress

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

2024

### SCIENCE POLICY INTERN

National Institutes of Health (NIH) Office of the Director

Bethesda, MD

· Assist in developing a public vision and framework for including patient and community voices in the design and conduct of NIH-funded clinical research. Help plan public consultations to develop recommendations regarding engagement methods for research employing novel technologies and will be prototyping equitable and inclusive approaches for patient and community engagement.

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

- American Society of Human Genetics (ASHG) Human Genetics Scholar
- Howard Hughes Medical Institute (HHMI) Gilliam Fellows Program
- 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)
- Participant, Initiative for Maximizing Student Development (IMSD), UNC Chapel Hill (2021-2022)
- 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)

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



## 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)



## 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

📍 Chapel Hill, NC

2021

### BIO 268 BIOSTATISTICS

Occidental College Department of Biology

📍 Los Angeles, CA



## TRAINING & CERTIFICATIONS

2023

### EDX THE INCLUSIVE STEM TEACHING PROJECT

- Trained facilitator for the national, NSF-funded Inclusive STEM teaching Project (ISTP). ISTP supports the professional development of faculty, largely in STEM, as reflective, inclusive practitioners through a 6-week, free online course and associated learning communities. ISTP has reached 11,240 participants to date. Learning communities are small groups of faculty and sometimes PhD students and postdocs who meet to engage with the course content, contextualize it to the local department or teaching context, share their own experiences and create a community of practice. ISTP nationally trains facilitators like me to lead these learning communities.

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

- 2024

● **A BIOCONDUCTOR/R WORKFLOW TO IDENTIFY AND VISUALIZE DIFFERENTIAL CHROMATIN LOOPS**  
 F1000Research **est. submission 07/2024**  
 · **JP Flores**, Nicole Kramer, Eric Davis, Michael Love, Douglas H. Phanstiel
- 2024

● **THE POWER OF PODCASTING AS A PLATFORM FOR EQUITY IN SCIENCE**  
 Journal Of Cellular Physiology **Accepted**  
 · **JP Flores**
- 2024

● **CONTENT ANALYSIS REVEALS THEMES FOR FOSTERING A SENSE OF BELONGING IN THE BIOMEDICAL RESEARCH ENVIRONMENT**  
 Frontiers in Research Metrics & Analytics **est. submission 08/2024**  
 · **JP Flores**
- 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
- 2023

● **MARINER: EXPLORE THE HI-CS**  
*Bioinformatics*  
 · Eric S. Davis, Sarah M. Parker, Nicole E. Kramer, **J.P. Flores**, Manjari Kiran, Douglas H. Phanstiel
- 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

- 2024

● **HOW DID HUMANS LOSE THEIR TAILS?**  
 GeneBites
- 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 / WORKSHOPS**

2024

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

Invited Talk, Sixth Annual Dr. Samuel M. Nabrit Conference for Early Career Scholars

📍 Providence, RI

2024

**GRADSCHOOL 101 WORKSHOP: PUBLIC SPEAKING**

Cientifico Latino Graduate Student Executive Committee (GSEC)

📍 Remote

2024

**BUILDING TOMORROW'S BIOMEDICAL WORKFORCE WEBINAR SERIES**

Frontiers in Research Metrics & Analytics

📍 Remote

· Building Tomorrow's Biomedical Workforce Webinar Series: A series of two webinars will cover broad systemic issues facing graduate and postdoctoral trainee populations in their education, training and career development; improving training environments by developing greater inclusivity, increased wellness and effective mentoring relationships; and will address needed government and institutional policy changes, systemic reforms, and federal government policies and actions.

2024

**FROM WHERE DOES IT STEM? : HUMANIZING SCIENCE USING SCIENCE COMMUNICATION & STORYTELLING**

Seeding Postdoctoral Innovators in Research and Education (SPIRE) - IRACDA Conference

📍 Chapel Hill, NC

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

2024  
|  
2017

### EXTERNAL SERVICE

- Host/Creator, [From where does it STEM? podcast](#)
- Senior Editor, [GeneBites](#)
- Data Science Team, Graduate Student Engagement and Community (GSEC) Program, [Cientifico Latino](#)
- 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) Head Baseball Coach, Chapel Hill High School
- Pen Pal, [Letters to a Pre-Scientists](#)
- Trained Facilitator, [edX: The Inclusive STEM Teaching Project](#)

2024  
|  
2021

### INSTITUTIONAL SERVICE - UNC CHAPEL HILL

- Leadership Group, UNC Biological and Biomedical Sciences Program
- Student Admissions Committee, UNC Biological and Biomedical Sciences Program
- Diversity, Equity, & Inclusion (DEI) Advisory Committee, UNC Genetics
- Scientist Ambassador, North Carolina DNA Day Connect
- Scientist Ambassador, Shadow a Scientist UNC
- Students in Training, Academia, Medicine, and Research Program (STAHR), UNC School of Medicine Office of DEI
- Lead Peer Mentor, GeNe FI UNC Department of Genetics
- Steering Committee 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)
- Peer Mentor/Interviewer, Chancellor's Science Scholars
- Director of External Affairs, Science Policy and Advocacy Group (SPAG)
- Invited Speaker Seminar Student Committee, Bioinformatics & Computational Biology, Department of Genetics



2021  
|  
2017

## ● INSTITUTIONAL SERVICE - OCCIDENTAL COLLEGE

- NCAA Division III Baseball Team, Occidental College Dept. of Athletics
- Student-Athlete Advisory Committee, 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
- Tour Guide, Occidental College Office of Admissions