JP FLORES

PHD CANDIDATE IN BIOINFORMATICS & COMPUTATIONAL BIOLOGY

Computational Biologist with expertise in high-throughput genomics, multiplexed imaging, data visualization, and science communication. I'm passionate about innovation in science and the diversity, equity, and inclusion (DEI) space.

CONTACT

Pronouns: he/him

661-993-2696

jpflores013@gmail.com

Carrboro, NC

LINKS

github.com/jpflores-13

linkedin.com/in/john-patrick-flores

@jpflores_13

0000-0001-5619-8990

SKILLS & TRAINING

- **Effective Mentoring Training** (2022)
- **Programming languages** including R, Python, bash scripting, HTML, and CSS
- **Workflow management** tools such as Make, Snakemake, and Nextflow using Docker and Git for reproducibility.
- **High-performance computing** environments
- **Strong understanding of large, complex NGS data types** such as Hi-C/Micro-C, RNA, SLAM, CUT&RUN, ChiP, ATAC
- **Confident** working in highly collaborative, fast-paced environments.

AWARDS & ACCOLADES

- **Occidental's 18 Young Scientists to Watch** (2023)
- **UNC Department of Genetics Retreat Poster Award** (2022)
- **National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP)** (2022)
- **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)
- **John W. McMenamin Award** (2021)

EDUCATION

PhD in Bioinformatics and Computational Biology 2021 - present
The University of North Carolina at Chapel Hill
Graduate Certificate in Innovation for the Public Good
Advisor: Doug Phanstiel

BA in Cellular & Molecular Biology 2017 - 2021
Occidental College, Los Angeles, CA
Public Health and Critical Theory & Social Justice Minors

EXPERIENCE

Graduate Research Assistant 2022 - Present
Phanstiel Lab (UNC-CH School of Medicine)
Chapel Hill, NC
- Using computational and wet-lab techniques to investigate the role of 3D chromatin architecture in response to environmental stress.
- Developing a user interface for the R/Bioconductor data visualization packager, plotgardener

Undergraduate Researcher 2017 - 2021
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.

FEATURED WORK

From where does it STEM?
Host/Creator
A podcast that empowers the next generation of diverse scientists.

the people of posit: bringing personality to R packages
Invited talk at posit::conf(2023)
Chicago, Illinois

Hyperosmotic stress induces phase-separation-driven chromatin loops
Poster presentation at the Keystone Symposium: Chromatin Architecture in Human Disease & Development
Victoria, British Columbia

Hyperosmotic stress induces complete rewiring of chromatin interactions
Poster presentation at the Fifth Annual Dr. Samuel M. Nabrit Conference for Early Career Scholars
Providence, Rhode Island

Hyperosmotic stress induces complete rewiring of chromatin interactions
Poster presentation at the 10th Annual Mid-Atlantic PREP & IMSD Research Symposium
Blacksburg, Virginia