

# John Patrick Flores

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## EDUCATION

Bachelor of Arts, Major Cellular and Molecular Biology, Minor Public Health  
Occidental College, Los Angeles, CA

May 2021

Doctor of Philosophy, Biological and Biomedical Sciences  
University of North Carolina, Chapel Hill, Chapel Hill, NC

Starting Fall 2021

## RESEARCH

**Undergraduate Researcher, Occidental College, Los Angeles, CA 10/2017- Present**

Directed Biology Research with Dr. Schulz, Occidental College, Los Angeles CA

- Utilize molecular biology techniques such as DNA isolation, PCR, and Gel electrophoresis using cone snail plasmid and gDNA in order to find medical relevance of venom. Utilize peptide biochemistry techniques such as HPLC on novel crude peptide and oxidation reactions. Perform bioinformatics research via amplicon sequencing and performing analysis with the Geneious platform. Perform data analysis and create SOP using the R programming language.
- **Poster Presenter**, Society for Neuroscience Annual Meeting 2018 11/04/2018
- **Poster Presenter**, Occidental College Summer Research Conference 07/31/2019
- **Poster Presenter**, Southern California Conference for Undergraduate Research 11/23/2019
- **Poster Presenter**, Society for Integrative and Comparative Biology Annual Meeting 01/05/2020
- **Presenter**, Occidental College Summer Research Conference 08/03/2020

## TEACHING EXPERIENCE

- **Teaching Assistant, BIO 268 Biostatistics, Dr. Amanda Zellmer, Occidental College**  
Spring 2021

## HONORS AND AWARDS

**John W. McMenamin Award**

**Occidental College Department of Biology, Los Angeles, CA 11/30/2020**

Given to the Biology major who has shown extraordinary commitment to the study of Biology and service to the community of students, staff, and faculty in the Biology Department.

**rstudio::global(2021) Diversity Scholar**

**RStudio, Boston, MA**

**01/09/2021**

Awarded to R programmers with marginalized identities who focus on skills for teaching and sharing, applications were evaluated considering experience and plans relevant to those skills.

## EXPERIENCE

**University of Utah David Eccles School of Business- Sorenson Impact Center**

**Student Manager of the Student Coalition for Higher Education, UT 09/2020- Present**

- Manage and engage students in a series of opportunities to inform the work and decisions of higher education professionals and demonstrate a model for IHEs to engage directly with students to develop more equitable, student-centric solutions.

**University of Utah David Eccles School of Business- Sorenson Impact Center**

**Data Science Intern, UT****09/2020- Present**

- 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.

**Occidental College Biology Department****Aquatic Animal Care TA, Los Angeles, CA****09/2019- Present**

- Providing aquatic animal husbandry for animals used in Biology lab courses. Daily feeding of zebrafish stocks and 3X weekly feeding of other fish. Daily checks of animal health and tank systems. Testing and logging water quality parameters twice a week and performing water changes as necessary. Setting up zebrafish breeding crosses, sexing zebrafish, and collecting and sorting embryos. Raising zebrafish fry to adulthood. Maintaining the rotifer culture. Cleaning tanks and fish equipment as necessary.

**Occidental College Admissions Office****Campus Tour Guide, Los Angeles, CA****03/2019- Present**

- Responsible for hosting groups that include, but are not limited to, prospective students and their families, visiting dignitaries, alumni, community organizations, and middle or elementary school students.

**Occidental College Athletics Department****Games Management Assistant, Los Angeles, CA****08/2017- 04/2020**

- Working all home sporting events, including clock operation, stat taking, and event set-up/ tear down. Duties that pertain to the operation of game management: filming/editing film, ticket taking, ball shagging, and event management.

**ASAP Baseball Academy****Infield Coach, Santa Clarita, CA****05/2017- Present**

- Instructed the infield of three teams with athletes ranging from seven to twelve years old.

**Yard Dog Baseball****08/2019- Present****Head Coach, Pasadena, CA**

- Headed a competitive travel baseball team with twelve year old athletes.

**La Cañada Aces Baseball Team****08/2019- Present****Assistant Coach, La Cañada, CA**

- Assistant coach for a competitive travel baseball team with eleven to twelve year old athletes.

**Receptionist/ Sales Assistant****Keyes Audi Valencia, Santa Clarita, CA****05/2017- 08/2017**

- Responsible for answering phone calls. Filing service repair orders and parts receipts.
- Stocking cafeteria

**Vertical Wellness Sports Therapy Chiropractic****Intern, Santa Clarita, CA****08/2016- 08/2017**

- Performed kinesiology taping, myofascial release therapy, and electrical stimulation therapy with the guidance of Dr. Mark Barraza.
- Handled paperwork regarding insurance and new client applications.

**LEADERSHIP****Shadowee, Oxy-Huntington Hospital Preceptorship****10/2020-11/2020****Host/Creator, From where does it STEM? Podcast****09/2020-Present****Board Member, Diversity and Equity Board, Associated Students of Occidental College****01/2021- Present****Member, Students for Equity and Advocacy in STEM, Occidental College****07/2020-Present**

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| <b>Member</b> , Society for Integrative and Comparative Biology   | 10/2019- Present |
| <b>Member</b> , Society for Neuroscience  | 10/2018- Present |
| <b>Member</b> , Genetics Society of America   | 04/2020- Present |
| <b>Member</b> , JEDI (Justice, Equity, Diversity, Inclusion) Subcommittee, Occidental College Athletics | 08/2020- Present |
| <b>Member</b> , NCAA Division III baseball program, Occidental College                                  | 08/2017- Present |
| <b>Member</b> , Student Athlete Advisory Committee, Occidental College                                  | 08/2017- Present |
| <b>Leader</b> , Sunrise Club, Occidental College  | 08/2020- Present |
| <b>Co- President</b> , Student Athlete Advisory Committee, Occidental College                           | 05/2020- Present |
| <b>Leader</b> , Occidental College Orientation Team   | 06/2018- 08/2019 |
| <b>Co-President &amp; Treasurer</b> , oxSEA Ocean Conservation & Sustainability Club                    | 07/2018- Present |
| <b>Facilitator</b> , Occidental College Book Club: “The New Jim Crow”                                   | 06/2020-07/2020  |
| <b>Facilitator</b> , Sorenson Impact Center/ MAPS Project: Reshaping Higher Education                   | 08/2020          |