

# Tavares Ortiz

## Laboratory Research Assistant

tavareso4@gmail.com

(123) 456-7890

New York, NY

[linkedin.com/in/tavares-ortiz](https://www.linkedin.com/in/tavares-ortiz)

### WORK EXPERIENCE

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#### **Percipalle Lab, New York University** - Laboratory Research Assistant

2016 - current

New York, NY

- Spearheaded project involving the application of protocols to produce induced pluripotent stem cells (iPSCs) to study how actin and myosin contribute to changes in 3D genome organization
- Developed a rigorous testing infrastructure for these protocols utilizing advanced imaging and genome wide analyses
- Results from these studies led to 2 publications focused on the identification of novel elements that control genome organization during formation of iPSCs
- Managed a team of 2 graduate research assistants and 2 undergraduate research assistants

#### **Biodesy** - Laboratory Research Assistant

2013 - 2016

San Francisco, CA

- Generated protein reagents, developed biochemical and biophysical assays and executed small-molecule screens with the aim of developing novel therapeutic targets
- Implemented data analysis techniques in R to increase the speed of demonstrating efficacy of new techniques by over 55%
- Regularly presented findings in front of the entire company to get buy-in from executive leadership regarding research direction
- Planned, developed and executed relevant assays to monitor structural changes in protein conformations in collaboration with the team

#### **Feng Lab, University of Southern California** - Graduate Research Assistant

2011 - 2013

Los Angeles, CA

- Assisted in experiments and data analysis leading to 3 publications centered around identifying molecular drivers of prostate cancer pathogenesis
- Performed knock-down experiments using shRNA lentiviral infection and CRISPR-based techniques
- Assisted with mouse colony management, including breeding, weaning, tagging, and PCR genotyping

### EDUCATION

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#### **University of Southern California** - Bachelor of Science, Chemistry

2006 - 2010

Los Angeles, CA

### SKILLS

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CRISPR based techniques; Molecular cloning; Quality control; Data analysis; Literature review; RNA isolation; Flow cytometry