

Daisy Chilin

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EDUCATION:

M.S Bioinformatics and Genomics Program,
University of Oregon

Expected Graduation, Dec 2019
Eugene, OR

B.S Marine Biology

California State University, Long Beach

Dec 2013
Long Beach, CA

BIOINFORMATIC SKILLS:

- . Customized Demultiplex script
- . Customized PCR duplicate removal script
- . Seurat
- . gsnap
- . BLAST
- . Biopython
- . SAMtools
- . DESeq

PROGRAMMING LANGUAGES:

- . Unix
- . Bash scripting
- . Python
- . R

OTHER SKILLS:

- . Open SCUBA Certified
- . CPR/First Aid/AED Certified
- . Bilingual (Spanish)
- . Olympic Weightlifting

PUBLICATION AND PRESENTATIONS:

Miller LP, Allen BJ, King FA, **Chilin DR**, Reynoso VM, Denny MW (2015) Warm microhabitats drive both increased respiration and growth rates of intertidal consumers. *Mar Ecol Prog Ser* 522:127-143.

Chilin, DR, Reynoso, VM. (2013, 2014). Species-specific responses to increasing environmental variability are driven by differences in physiological performance capacity. Poster presented at the Western Society of Naturalist and the Southern California Academy of Sciences meeting.

RESEARCH EXPERIENCE:

INVESTIGATING HOST-MICROBE ASSOCIATIONS USING SINGLE-CELL RNA SEQUENCING

Graduate Research Assistant

Sep 2018 - Present

University of Oregon

Eugene, OR

- . Analyzed single-cell RNA sequencing data to understand how bacteria influence the host's transcriptome.
- . Compared gene expression from germ free derived fish to conventionally raised fish at 4 days post fertilization.
- . Used Seurat for data analysis and visualization.
- . Currently working on creating an algorithm to efficiently annotate single-cell clustering.

EFFECTS OF INCREASING TEMPERATURE ON RESPIRATION AND GROWTH RATES OF LOTTIA LIMPETS

Undergraduate Research Assistant

Jun 2013 - Aug 2013

Hopkins Marine Station of Stanford University

Pacific Grove, CA

- . Collaborated on an ongoing project to determine the effects of rising temperatures on marine organisms.
- . Identified and collected different species of marine snails (*Lottia sp*) from the rocky intertidal zone.
- . Measured metabolic rates of limpets in a closed chamber with an oxygen meter and optical sensor.

WORK EXPERIENCE:

Zebrafish Facility Technician

May 2015 - Jun 2018

California Institute of Technology

Pasadena, CA

- . Managed ~4,000 tank zebrafish aquaculture facility.
- . Maintained live cultures such as Rotifers and *Artemia* for daily zebrafish feed.
- . Bred and reared fish to maintain unique strain lines.
- . Provided routined maintenance and repairs such as filter changes, water quality testing and probe calibrations.
- . Developed a database to keep track of each fish in the system.
- . Assisted with administrative oversight of the facility.

Kennel Attendant

Oct 2014 - May 2015

Animal Medical Hospital of Southern California

Los Angeles, CA

- . Fed, medicated, played with and facilitated exercise for the animals being treated at or boarding in the facility.
- . Closely monitored animals behavior, habits and environmental conditions by keeping hourly records.
- . Assisted technicians and veterinarians hold animal while being examined, vaccinated or medicated.
- . Provided office help by answering phone calls, maintaining records, and processing payments.

PADI Mentor Research Intern

Jun 2014 - Aug 2014

FRIENDS of Cabrillo Marine Aquarium

San Pedro,

CA

- . Guided three high school students on how to apply the scientific method to marine biology.
- . Provided workshops on scientific writing, data analysis, and oral presentations.
- . Helped students become familiar with the tools and challenges of research.