Dennis R. Mulligan

Graduate student in bioinformatics with a skillset for computational analysis of biological data. Background in plant genetics, including wet-lab work. Strong programming ability in python, as well as experience with R. Seeking positions involving the development and application of methods for computational biology, and eager to expand knowledge and skills.

Education:

- **University of California, Santa Cruz** *2018 to 2020**
  Currently pursuing M.S. in Biomolecular Engineering & Bioinformatics.
- **University of California, Berkeley** *2014 to 2016*
  B.S. Genetics & Plant Biology
- **City College of San Francisco.** *2011 to 2014*
  Associate-level coursework in Chemistry, Biology, Physics and Mathematics.

Current Positions:

- **Teaching Assistant,** U.C. Santa Cruz
  Currently teaching an introductory course on object-oriented programming with challenging bioinformatics assignments; previously taught ethical theory and application in biological research.
  - Research Programming in the Life Sciences*: Winter, Spring 2019 & Winter 2020*
  - Bioethics *Fall 2019*
- **Graduate student researcher,** U.C. Santa Cruz
  Includes work in Dr. Chris Vollmers' lab studying RNA transcript expression in mammalian cells, sequenced with nanopore. Performing computational analysis using pipelines created by the lab.

Academic and Research Experience:

- **USDA Plant Gene Expression Center** – Albany, CA *Summer & Fall 2015*
  Undergraduate Researcher
  Studied plant innate immunity under Dr. Barbara Baker, analyzing microRNAs in gene regulation. Cultivated tobacco plants, performed *Agrobacterium* infiltration, RNA and DNA extraction.
- **Energy Biosciences Institute** – Berkeley, CA *Fall 2014*
  Bioenergy Analysis Intern
  A work-study position performing literature-based research relevant to biofuels. Found and catalogued parameters of butanol production by Clostridium species from numerous research papers.
- **Lawrence Berkeley National Lab** – Berkeley, CA *Summer 2013*
  Summer Intern
  Under Dr. Yvette Piceno in the Andersen Lab, quantified microbial communities in compost by performing microarray analysis. Presented results as research poster and slide presentation.

Prior Professional Experience:

Held various chef roles at restaurants in San Francisco, CA, including management and key kitchen operational positions.

- Wine Kitchen: *Expeditor/Chef de Partie* *2013 to 2014*
- Radius Restaurant: *Expeditor/Chef de Partie* *2011 to 2013*
- Magnolia Gastropub: *Sous Chef* *2010 to 2011*
- Spruce Restaurant: *Chef de Partie* *2007 to 2010*

Honors and Awards:

Chemistry Chair Dr. Michael Solow's Scholarship	*2014*
NSF STEM Scholarship	*2013*
Bernard Osher Scholarship	*2013*
Dean's List (six semesters)	*2011 to 2014*

Other Activities:

Stay-at-home Parent	*2016 to 2018*
UC Berkeley Botanical Garden: Propagation work-study position	*Summer 2014*
CCSF Organic Chemistry S.I. Tutor	*2013*
Member of CCSF Chapter of SACNAS	*2013 to 2014*
UC Berkeley E3S REU	*Summer 2013*