

Statement of purpose:

I have experience interning at an international private research lab, their focus was the study and treatment of liver disease. Probably in relation to the long term effects of alcoholism. It was a German lab after all, and the humor was not lost on them. I spent the better part of a week shadowing researchers in the department, assisting in any way that I could, and asking every question that could be asked. I like to think the researchers enjoyed having me there as much as I enjoyed being there. It was clear that research wasn't exciting most of the time, but it didn't have to be. Ever since then I've had a clear direction in which to follow, I wanted to pursue biological research. Something meaningful that would help people, but the more I pursued my goal the more the landscape in which I perceived had continued to change and not for the better. The last few years haven't been kind to the scientific community and maybe I'm wrong about what science is but I thought science was meant to make new discoveries that could help people and improve the human experience. People make mistakes I understand, but scientists of all people should be able to admit when they were wrong. I have great respect for people who can say "I don't know but I will get back to you on that" and "I was mistaken" "incorrect" "wrong" "but with this new evidence I will try to do better". I still have hope that science can be what I want it to be. I think it's pretty clear people don't go into scientific research for the money or status, I also consider myself one of those people. I just want to discover ways to make life better, and help people. I want to research stem cells and or genetic engineering, the possibilities are truly endless. Some day I want to run my own research laboratory and start my own company providing medical treatments to people modern medicine has given up on. Fixing the kind of ailments that were thought to be unfixable. UC Davis's reputation speaks for itself. It seems like every week I hear of some scientific feat that UC Davis has taken on. And I want to do everything I can to help out and contribute to those feats and accomplishments. I am confident that the hands-on training, renowned faculty, and some of the best research facilities in the world, will help me do just that. I want to learn and do everything I can, there are a lot of great researchers at UC Davis and I know I can learn a lot from any one of them. I don't have a specific researcher in mind but my goal is to help them at least as much as they help me. I always try to give more than I take and I know I have a lot to give to this program and I won't waste the opportunity.

Educational Background:

-B.S in Biological Sciences with a Concentration in General Biology

Research Experience:

- 1 week internship at a private international lab in Hanover Germany, they were studying liver disease in mice.
- Use of R (quantitative analysis software) in conjunction with my presentation on the "Effects of Captivity on the Cloacal Microbiome of the Dark-eyed Junco (*Junco hyemalis*),"

Publications and Presentations:

- I authored a paper with two other students "Gene Model for S6k in the D. persimilis (DperRS2) assembly (GCF_003286085)"
- Presentation a scientific poster on at a CSU Symposium 2024

Relevant Work Experience:

- Lab work, pipetting, benchling, Vector Prep, PCR, Screening of transformants, western blots.
- Farm hand, Fixer of things, equipment, electrical systems and devices.
- Great with animals, I take care of just about all of them: pigs, cows, goats, horses, including all the medical procedures, injections, dosage, bandings, sutures, bandaging.

Awards and Honors:

I made the Dean's list every semester 3.6 GPA

California State University Stanislaus Turlock California