jennifer yip

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Dear Hiring Manager:

I am a recent Microbiology graduate from UC Davis and currently looking for a research associate position.

My curiosity in microbiology developed in junior high, when my aunt (also a microbiologist) told me about the millions of microbes that are literally everywhere. It amazed me. Then in high school, I attended COSMOS, a science camp, where I learned about bioremediation of arsenic from groundwater, from Chad Saltikov at UCSC. Naturally, when I reached UC Davis, I decided to study microbiology, and take on a leadership role in the microbiology club.

At Davis, I took a variety of classes, including general microbiology, microbial ecology, as well as plant ecology and plant pathology. Through this combination of classes and my time at the UCD Botanical Conservatory, it was evident that my passions were in plant pathology and the study of plant-microbe associations.

In addition, I worked in Lab Leveau, a plant pathology laboratory. Initially, I assisted in a project examining bacterial antagonism on strawberries, *Pseudomonas putida* and *Xanthomonas fragariae*, the causal agent of Bacterial Angular Leaf Spot. Over the last year, as an independent project, I studied symplasmata formation in the epiphyte, *Pantoea agglomerans*. From my time in Lab Leveau, I gained both a variety of laboratory skills, as well as an understanding of the implications of microbial ecology on plant health.

In closing, I would be thrilled at the opportunity be involved with plant pathology. As the worldly population increases, so does our need for solutions to feeding it. Just like the gut microbiota's potential role in human health has surprised many, the plant microbiota holds the same potential on plant health and to create sustainable solutions to some of the agricultural problems we face. I hope to hear from you soon! Thank you!

Sincerely,

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EDUCATION

University of California, Davis **Cumulative GPA: 3.29**

- B.S. Microbiology *June 2015*
- Minor Evolution, Ecology, and Biodiversity

Relative Classwork

- Introduction to Plant Pathology
- Introduction to Biology
- Writing in Science
- General Microbiology
- Microbial Diversity
- Microbial Ecology
- Introductory Mycology
- Plant Disease Diagnostics
- Microbial Phylogenomics
- Biomolecules and Metabolism
- Introduction to Evolution, Ecology
- Plant Ecology
- Genes and Gene Expression
- Cell Biology
- Yeast Genetics

Skills

- BioTek microplate reader
- Bacterial overlays
- Bacterial streaming
- Compound microscope
- Dissecting microscope
- DNA extraction
- ELISA
- Gen5 data analysis
- PCR
- Plant care
- Plant dip-inoculation
- Plant sap-inoculation
- Spectrophotometer
- Various mounts and staining
- Viral plaque assays
- Microsoft Office

PROFESSIONAL EXPERIENCE

Undergraduate Researcher *2/2014—Present*

Lab Leveau, Plant Pathology Department *University of California, Davis*

- Worked on independent research project, studying symplasmata formation in *Pantoea agglomerans*
  - Examined the effects of nutrient environments on symplasmata formation
  - Investigated presence of diauxic growth using microplate reader
- Assisted in *Xanthomonas fragariae* project, assessing bacterial antagonism by *Pseudomonas putida* (bacterial overlays, cultures, media preparation, plating)
  - Worked in greenhouse and cared for strawberry plants
  - Prepared and analyzed bacterial overlay assays for antagonism
- Presented research at UC Davis Undergraduate Research Conference

UC Davis Botanical Conservatory *September 2013—March 2014*

Intern *University of California, Davis*

- Obtained knowledge of horticulture, such as pruning and grafting plants
- Learned about plant biology and physiology
- Gained skills in plant care in a greenhouse environment

Library Assistant *9/2012—9/2014*

Shields Library—Interlibrary Loan Department *Davis, CA*

- Processed and updated interlibrary loan requests through databases
- Scanned, prepared, organized, and loaned various forms of media to other libraries

ACTIVITIES

American Society for Microbiology at UC Davis (Microbiology Club) *September 2014—June 2015*

Co-President *University of California, Davis*

- Organized guest lecturers, by contacting various professors
- Managed Picnic Day exhibit, including ~15 volunteers and eight different stations
- Communicated with parents and children about microbiology
- Visited elementary school classes to teach about the microbes they encounter everyday
- Lead club meetings and interacted with students, cultivating interest in microbiology

ADDITIONAL INTERESTS

Bread making, book binding, succulent plants, knitting and crochet