

# Adrianna Ng

Davis, CA || adkng@ucdavis.edu

## Education

Bachelor of Sciences in **Plant Biology**, University of California, Davis  
Cumulative GPA: 3.66 out of 4.00

## Experience

**Graduate Student Researcher**, Horticulture and Agronomy Graduate Group [ Sept. 2024 - present ]  
Dr. Mitchell Feldmann & Dr. Juan Debernardi, Department of Plant Sciences – Davis, CA

- Utilized novel approaches in tissue culture to regenerate whole edited plants from commercially-relevant strawberry cultivars
- Investigated transgene-free gene editing in strawberry with RNPs targeting genes of interest

**Research Associate**, Google X [ April 2022 - Sept. 2024 ]  
Dr. Davide Sosso & Dr. Charlie Emrich; X, the Moonshot Factory – Mountain View, CA

- Researcher responsible for conducting high throughput plant growth, genotyping, and phenotyping
- Characterized edits in model species using large-scale phenotyping and automated genomic processing

**Junior Specialist**, UC Davis [ May 2021 - March 2022 ]  
Dr. Anne Britt, Department of Plant Biology – Davis, CA

- Monitored transgenic tomatoes for shelf life improvement and presented results to industrial collaborators
- Constructed plasmids with GoldenGate and identified transgenic seeds with confocal microscopy
- Transformed *A. tumefaciens* with promoters of interest for agroinfiltration into *N. benthamiana* and *S. lycopersicum*

**Junior Specialist**, UC Davis [ May 2021 - March 2022 ]  
Dr. Neelima Sinha, Department of Plant Biology – Davis, CA

- FFAR-funded research investigating shoot regeneration and transformation in a variety of *Phaseolus* in tissue culture
- Evaluated optimal amounts of growth hormones to supplement growth media to encourage rapid apical shoot formation in *P. vulgaris*, *P. lunatus* seedlings

**Research Assistant**, Walnut Improvement Program at UC Davis [ April 2019 - May 2021 ]  
Dr. Patrick Brown, Department of Plant Sciences – Davis, CA

- Assisted in the development of improved walnut breeding protocols and disease-resistant germplasms
- Maintained a library of hybrid walnut shoots, somatic walnut embryos, and pistachio hybrid embryos in tissue culture

**Independent Researcher**, UC Davis [ February 2018 - May 2021 ]  
Dr. Johanna Schmitt, Department of Evolution & Ecology – Davis, CA

- Consecutive research projects identifying the effects of climate change on the growth and development of California jewelflowers
- Simulated historical and present-day weather conditions to examine germination and survivorship in *Streptanthus* and *Caulanthus* seeds collected across an elevational gradient

### ***Conference Presentations***

- **Ng, A.** (April 2021). Effects of Seedling Age and Origin on Drought Tolerance in *Streptanthus tortuosus*. Presented at the 32nd Annual UC Davis Undergraduate Research, Scholarship, and Creative Activities Conference. Davis, CA.
- **Ng, A.** (May 2020). Effects of After-Ripening Storage Temperature and Length on Germination of California Jewelflowers. Presented at the 31st Annual UC Davis Undergraduate Research, Scholarship, and Creative Activities Conference. Davis, CA.

### ***Awards, Grants, and Fellowships***

- *Horticulture and Agronomy Graduate Fellowship* (2024) - Fellowship is awarded in recognition of outstanding academic record and promise of productive scholarship.
- *UC Davis Outstanding Senior Award in Plant Biology* (2021) - The Outstanding Senior Award recognizes one graduating senior within their major for achieving academic excellence.
- *UC Davis Distinguished Scholar Award in Plant Biology* (2021) - Given to graduating seniors who have conducted substantial research and maintained a high upper division GPA.
- *College of Biological Sciences Dean's Circle Summer Undergraduate Research Program* (2020) - Selected students receive funding to conduct an independent research project through a 10-week summer period.
- *Alden S. Crafts Scholarship* (2020) - Awarded to students majoring in botany or biological sciences with a plant science emphasis.
- *Wilfred William Robbins Scholarship* (2020) - Awarded to students majoring in botany.
- *Liliane D. Wells Scholarship* (2017) - Awarded to students majoring in botany.
- *UC Davis College of Biological Sciences' Dean's Honors List* (2018 - 2021)
  - *Spring Quarter 2018*
  - *Fall Quarter 2020*
  - *Winter Quarter 2021*

### ***Professional Affiliations***

- Member, Prytanean Women's Honor Society