Poster Presentations (*student researcher)

1. **Almond Waste for Textile Coloration with Potential Antimicrobial Performance**
   Myunggyo (Emily) Yu[3]*, Anna Marfori[2]*, Jonathan Dannenberg[2]*, Xu Yang[1], Yan Liu[2], and Jiangning Che[3]
   [1]Department of Nutrition and Food Science Department, [2]Department of Chemistry and Biochemistry and [3]Department of Apparel Merchandising and Management, Cal Poly Pomona

2. **Climate-Driven Shifts in California's Avocado Crop Landscape Between 2008-2041**
   Joshua Pool[1]*, Sara Snyder[1]*, Emilee A. Acosta[2]*, Jacquelyn Robles[3]*, Namie Takatsuka Costa[4]*, Jaya Kurade[5]*, Parnian Shirdast[5]*, and Gabriel Granco[1]*
   [1]Department of Geography and Anthropology, [2]Department of Political Science, [3]Department of Geological Sciences, [4]Department of Lyle Center for Regenerative Studies, and [5]Department of Computer Science, Cal Poly Pomona

3. **Climate-Driven Shifts in California's Citrus Crop Landscape**
   Sara Snyder[1]*, Joshua Pool[1]*, Emilee A. Acosta[2]*, Jacquelyn Robles[3]*, Namie Takatsuka Costa[4]*, Jaya Kurade[5]*, Parnian Shirdast[5]*, and Gabriel Granco[1]*
   [1]Department of Geography and Anthropology, [2]Department of Political Science, [3]Department of Geological Sciences, [4]Department of Lyle Center for Regenerative Studies, and [5]Department of Computer Science, Cal Poly Pomona

4. **Development and Optimization of a Novel Water Disinfection System**
   Arnel S. Mariano[1]*, Ziyu Zhang[1]*, Victor Ornelas[1]*, Y. Olive Li[1], Mingheng Li[2], Wei-Jen Lin[3], and Xu Yang[1]
   [1]Department of Nutrition and Food Science, [2]Department of Chemical and Materials Engineering, and [3]Department of Biological Sciences, Cal Poly Pomona

5. **Effect of Enzyme Treatment on Structural and Functional properties of Almond Proteins**
   Yutian Li*, Abhijit Kamath*, Belal Hasan, and Harmit Singh
   Department of Nutrition and Food Science, Cal Poly Pomona

6. **Effects of Repellent Treatment on Physiological Responses of Cattle to Biting Flies**
   Jane Rumpak[1]*, Caleb Hubbard[2], Alec Gerry[2], Amy Murillo[2], and Juanita Jellyman[1]
   [1]Department of Biological Sciences, Cal Poly Pomona and [2]Department of Entomology, University of California, Riverside.

7. **Focus Group Insights: Exploring SNAP-Ed Recipe App Usage & Acceptability Among Parents in Pomona, CA**
   Maria Ambriz*, Maria Calderon*, and Emily J. Kiresich
   Department of Nutrition and Food Science, Cal Poly Pomona

8. **Heritability of Key Tomato Fruit Quality Traits in a Controlled Cross**
   Priti Saxena, Erwing Castillo*, Kailan Kidder*, and James Weeks
   Department of Plant Science, Cal Poly Pomona.

9. **Improving Water and Nitrogen Use Efficiency in Lettuce by Selecting for Root Characteristics**
Connor Soderstrom[1]*, Erica Fontanez[2]*, Samuel Morales[1*], Justin Medina[2]*, Youngsook You[3], and David W Still[3]
[1]Department of Plant Sciences, [2]Department of Biological Sciences, Cal Poly Pomona; and [3]CSU Agricultural Research Institute

10. **Integrating Mediterranean Dietary Principles to Improve Diet Quality and Diabetes Management in Ethnic Minorities in Pomona**
Fatheema Begum Subhan, Bonny Burns Whitmore, Erik Froyen, and Sangeeta Shrivastava
Department of Nutrition and Food Science, Cal Poly Pomona

11. **Is It Eco-Friendly and Safe? Investigation of Consumers' Perceived Ecological Benefits, Contagion Beliefs, and Safety Concerns of Hydroponic, Aquaponic, and Organic Produce**
Yi Xie, Steven Archambault, and Jon Phillips
Department of Agribusiness & Food Industry Management and Agricultural Science, Cal Poly Pomona

12. **Machine-Learning Models for the Detection of Powderly Mildew in Vineyards using UAV-Based Hyperspectral/RGB Data and Ground-Based Measurements**
Ardavan Sherafat[1]*, Michael Acosta[1]*, Mahakbhai Patel[1]*, Cristobal Gonzalez[2]*, Subodh Bhandari[3], and Amar Raheja[1]
[1]Department of Computer Science, [2]Department of Plant Science, and [3]Department of Aerospace Engineering, Cal Poly Pomona

13. **One- and Two-Step Oxidative Cleavage of Lignin to Produce Aromatic Platform Chemicals Using Molybdenum and Vanadium Complexes**
Sean Tosti*, Jasper Dang*, Alex Cartolano*, and Alex John
Department of Chemistry and Biochemistry, Cal Poly Pomona.

14. **Optimizing Multilayer Emulsion-Based Delivery Systems by Identifying Ideal Protein-Polyphenol Layering Conditions**
Catrina Jozsa*, Jocelyne Argueta*, and Gabriel Davidov-Pardo
Department of Nutrition and Food Science, Cal Poly Pomona

15. **Pre- and Post-Fertilization Molecular Dynamics in *Aquilegia* Carpel Development**
Ana Alcaraz[1]*, Mankirat Pandher[1]*, Marianellie Bravo[1]*, Rene K Romo[1]*, Christian Suarez[1]*, [2]Rakesh Kaundal, and Bharti Sharma[1]
[1]Department of Biological Sciences, Cal Poly Pomona and [2]Utah State University, Logan

16. **Resilience of Lettuce in California Agriculture: Analyzing 15 Years of Crop Distribution Modeling Using USDA CDL and Bioclimatic Variables (2008-2023)**
Jacquelyn Robles[3]*, Sara Snyder[1]*, Joshua Pool[1]*, Emilee A. Acosta[2]*, Namie Takatsuka Costa[4]*, Jaya Kurade[5]*, Parnian Shirdast[5]*, and Gabriel Granco[1]*
[1]Department of Geography and Anthropology, [2]Department of Political Science, [3]Department of Geological Sciences, [4]Department of Lyle Center for Regenerative Studies, and [5]Department of Computer Science, Cal Poly Pomona

17. **Studies towards Development of POC Devices for Detecting Citrus Fungicides and HLB using LFA and LAMP Platforms**
Paula Truong[1]*, Regis Dam[1]*, Mason Woronets[1]*, Hao Jie Mao[1]*, Chandrika Ramadugu[2], and Sean Liu[1]
[1]Department of Chemistry and Biochemistry, Cal Poly Pomona and [2]Agricultural Experiment Station and Cooperative Extension, UC Riverside

18. **The Effects of Freeze-Dried Whole Grape Powder on Chronic Disease and Cardiovascular Risk Factors, Hunger, Satiety, and Body Composition in Free-Living People-a Pilot Study**
Bonny Burns-Whitmore[1], Erik B. Froyen[1], Hadis Rezaei[1]*, Nghi Cao[1]*, Jackson Young[1]*, and Juan Fernandez[2]*
[1]Department of Nutrition and Food Science and [2]Department of Animal and Veterinary Sciences, Cal Poly Pomona

19. **The Effects of Non-Crop Vegetation on Arthropod Pest and Natural Enemy Abundance in Lemon and Avocado Orchards**
Ian Garcia[1*], Carson Loudermelt[1*], Elizabeth Scordato[1], and Hamutahl Cohen[2]
[1]Department of Biological Sciences, Cal Poly Pomona and [2] University of California, Agricultural and Natural Resources Extension

20. **The Utilization of Bacteriophage as a Biocontrol Agent for *Escherichia coli* Decontamination in Microgreens**
Zhe Zhang* and Xu Yang
Department of Nutrition and Food Science, Cal Poly Pomona

21. **Utilizing Bioinformatic Analysis to Investigate the Dissemination of Carbapenem Resistant Enterobacterales (CRE) in California Vegetable Supply Chains**
Nhu-Y Do* and Xu Yang
Department of Nutrition and Food Science, Cal Poly Pomona

22. **Wearable Sensors to Record Fly-Repelling Behavior in Cattle**
Jane Rumpak[1]*, Caleb Hubbard[2], Alec Gerry[2], Amy Murillo[2], and Juanita Jellyman[1]
[1]Department of Biological Sciences, Cal Poly Pomona and [2]Department of Entomology, University of California, Riverside