

## ASDRP 2020 Research Expo & Symposium Presenter Schedule

Time	Room	Department	Project Title	Description	Advisor	Authors
1:30-1:45	2	Computer Science & Engineering	Analyzing Settlement Distribution of Marine Invertebrates in the Santa Barbara Channel	Analyzing settlement distributions of marine invertebrates in the Santa Barbara Channel by determining correlations between different species, statistically determining differences between data retrieval methods, and applying autoregressive technique to predict invertebrate counts over time.	Johnson	Arnav Cherukuthota, Rayland Ho, Shafin Haque, Divya Murugan, Srivishal Sudharsan
1:45-2:00	2	Biological, Human, and Life Sciences	Varying treatments of Cu-chelators to reduce the aggregation of Ab peptides in adult transgenic C. elegans	Brain copper is a vital biometal to metal ion homeostasis in the brain. Large concentrations of copper in the environment have been shown to accelerate the aggregation of Ab peptides. We evaluated the treatment of copper chelators to reduce aggregation to determine its effect on the lifespan of transgenic C. elegans	Truong	Sumedha Goyal*, Evangelina Kalathoti*, Janani Prasad*, Zaid Vellani*, Nicholas Wong*
2:00-2:15	2	Chemistry, Biochemistry & Physics	Synthesis of 6-benzylaminopurine Analogs	Cytokinins are plant hormones which prevent cell death and promote cell division. Through the synthesis of analogs of 6-benzylaminopurine, a synthetic cytokinin, we created a library of viable analogs with our findings from <i>in-silico</i> and <i>in-vivo</i> methods. Through our studies, we hope to advance the prevention of neurodegenerative amyloidogenic diseases.	Njoo	Shloka Raghavan, Shreya Anand, Ananya Vittaladevuni, Aashi Shah, Aylin Salahifar, Riya Abiram, Catherine Zhou, Priya Chanda
2:15-2:30	2	Computer Science & Engineering	Does happiness impact COVID-19 responses?		Mui	Arjun Premnath Aryan Parekh Karthik Mittal Miha Bhaskaran Raj Thota
2:45-3:00	2	Computer Science & Engineering	Demographic Bias in Industry Unemployment during the 2020 COVID-19 Pandemic in United States		Mui	Justin Lin Maithili Kumar Aditya Iyengar Richard Yin Angelina Loh
3:00-3:15	2	Chemistry, Biochemistry & Physics	Understanding the Santa Barbara Coastal Beach Wrack Distributions and Relationships	Quantitatively analyze relationships between beach macrophyte wrack's composition, cover, depth, and wet biomass. Further, modeling time series data for forecasting wrack volume over time by cover type.	Johnson	Luana Yeung, Ethan Liu, Arush Agarampur, Erwan Pal
3:15-3:30	2	Computer Science & Engineering	Machine Learning Title: Using Demographic Data Along with Machine Learning and Regression Techniques to Predict the Future Impact of COVID-19 across the United States.	We used Exponential Smoothing algorithms in Microsoft Excel and Multiple Linear Regression algorithms in R to predict which states in the United States will be impacted the most by COVID-19 in the near future.	McMahan	Shivam Adeshara, Bryan Ambrose, Shiho Amster, Vishal Bansal, Ziyen Batada, Shalini Krish, Reina Pradhan
3:30-3:45	2	Computer Science & Engineering	Crime rate prediction	Predict crime rate for a location	Subramaniam	RohanAdwankar JasonVu PriyankaJakka