

SLCSD Science & Engineering Fair Senior Division Awards 2022

Thank you to all of our students who participated!

Senior Mechanical & Materials Engineering			
1st Place	Collin Stanley & Ellis Chalker	Actuated Knee Exoskeleton	SLCSE
2nd Place	Marianne Liu	Hyperparameter optimization for better predictive performance in machine learning models	West High

Senior Medicine, Health Sciences, & Biomedical Engineering			
1st Place	Brendon Young	Exploring the Effects of a Point Mutation in the 5' UTR of APC Discovered in Patient	West High
2nd Place	Megan Tandar	Atg3 gene suppresses cognitive performance in mice	West High
3rd Place	Sharayu Senthilkumar	Quantification of MR-guided focused ultrasound (MRgFUS) system upgrades on ablation of neural tissue	West High

Senior Chemistry & Biochemistry			
1st Place	Dora Meiwes	Investigating the Properties of Natural Paint Binders and Their Applications	West High
2nd Place	Jeffrey Kulsomphob	Can strong ligands attach to a zirconium tetrachloride and increase the coordination number of the compound	West High

Senior Physics, Astronomy, & Math			
1st Place	Lukas Mesicek	Numerical Simulations of General Relativity	SLCSE

Senior Computer Science & Applied Computational Methods			
1st Place	Yaniv Tausky	Simulating Prey and Predator Evolution	West High
2nd Place	Ronak Agarwal	Tracking COVID-19 Variants	West High

Senior Earth & Environmental Sciences			
1st Place	Hazel Wilde	Exploring Golden Eagle Diets Through Isotopes	SLCSE
2nd Place	Zejun Li	Imaging Calcite in Trilobite Lenses Using Confocal Rama Microscopy	West High

Senior Biology & Microbiology			
1st Place	Riya Soneji	Making a Second Generation Phage Library	West High

Senior Behavioral & Social Sciences			
1st Place	Susan Arcos-Flores, Nathan Flores	Mental Health Resources and Treatment	SLCSE

Senior Honorable Mention			
Honorable Mention	Sasha Acevedo	The absorption of UV Radiation through different fibers.	SLCSE
Honorable Mention	Caroline Cook, Meir Grayzel	Correlation Between Soil Biodiversity and Relativity to Roads (CBSBRR)	SLCSE
Honorable Mention	Isabella DeLagerheim, Ethan Yrungaray	Save our Soil (SOS): finding a reliable plant base to create soil stability for the Great Salt Lake	SLCSE

Honorable Mention	Diego Escobar, Maximillian Therruault	Fast Food Fuel: Examining the Free Fatty Acids and Viscosity of Used Vegetable Oil for Biodiesel Production	SLCSE
Honorable Mention	Krishnam Goel	Nanotechnology for Viruses	West High
Honorable Mention	Cayden Neimoyer, Jonathan Randazzo-Brady	STEM Cell Reseach	SLCSE
Honorable Mention	Saathvik Pai	Modeling RAS Complexes' Interactions	West High