The 69th Annual GSDSEF

GRAND AWARDS

2023

Grand Awards Runners-Up

Grand Award Runner Up - Life Sciences

Samuel Sternson

The Rhoades School

Advisor: R. Hunker

Production of Natural UV-absorbing Sunscreens in Plant Leaves

Grand Award Runner Up - Life Sciences

Dhruv Bantval

Pacific Trails Middle School

Advisor: E. Main

Smart glove with ASL-to-Speech Conversion to Assist the Hearing Impaired

Junior Division Grand Award Runner Up - Physical Sciences

Keanu Zeller

The Rhoades School

Advisor: R. Hunker

The Angle Effects on Eddy Current Impacts

Grand Award Runner Up - Physical Sciences

Jake Vignevic

St. Gregory the Great

Advisor: Sudipta Dasgupta

Measuring Protein and Vitamin C Level in Foods after Different types of Cooking

Grand Awards
Runners-Up

Grand Award Runner Up - Life Sciences

Kara Fan

Westview High School

Advisor: S. Halander

A Self-Disinfecting Nanomaterial for Future Space Travel

Grand Award Runner Up - Life Sciences

Sanjana Kumar

Francis Parker School

Advisor: J.P. Pierce

Utilizing 3D-Printed Engineering Living Materials to Break

Down Environmental Polluntants

Grand Award Runner Up - Physical Sciences

Saanvi Dogra

Del Norte High School

Advisor: S. Dhanda

Investigating the Underlying Molecular Patterns in Aggressive

Brain Tumor ETMR Title

Grand Award Runner Up - Physical Sciences

Vishnu Aravind
Alex Kumar
Del Norte High School
Advisor: S. Kumar

Using Machine Learning to Repurpose FDA Drugs for the Treatment of Diabetic Cardiomyopathy

The Taiwan Award

A Grand Award presented by the Taiwanese American Foundation of San Diego

The Taiwan Award

Vishnu Aravind Alex Kumar

Del Norte High School

Advisor: S. Kumar

Using Machine Learning to Repurpose FDA Drugs for the Treatment of Diabetic Cardiomyopathyt Title

GRAND AWARDS

Junior Division Grand Award – Life Sciences

Steven Chen

Pacific Trails Middle School

Advisor: A. Milholland

Magnetically-Powered Micro Train

Junior Division Grand Award – Life Sciences

Lily Long

The Rhoades School

Advisor: R. Hunker

Exploring Academic Setting Applications of a Turing Test Derivative

Junior Division Grand Award - Physical Sciences

Kayley Xu

The Bishop's School

Advisor: J. Jordan

Respiratory Sound Classification Using Al

Grand Award - Physical Sciences

Brooklyn Owen

Classical Conversations

Advisor: K. Owen

Putts to Perfection: Comparing Repeatability of Heavy and Light Putters

GRAND AWARDS

Grand Award - Life Sciences

Sarah Gao

Canyon Crest Academy

Advisor: E. Gerstin

Identification and Experimental Characterization of Plant Seeds as Effective Flocculants for Water Treatment

Senior Division Grand Award - Life Sciences

Kate Xu

Del Norte High School

Advisor: B. West

ProjeReducing Lead Contamination Through Hydroponically-Grown

Mycorrhizal Plants

Grand Award - Physical Sciences

Agastya Sridharan

Scripps Ranch High School

Advisor: P. Fowler

Improved Inductive Performance on Small Datasets Using Hyper-Connected Neural Architectures, C. Elegans-Inspired Networks, and Evolutionary Modeling

Grand Award - Physical Sciences Nicholas Usher Logan Brown High Tech High School North County

Advisor: C. Sailor

A Differentially-Geared, Omnidirectional Robotics Platform With Autonomous Jerk-Limited Navigation

The 69th Annual GSDSEF

ISEF Finalists 2023

ISEF Finalists:

Sarah Gao

Kate Xu

Agastya Sridharan

Nicholas Usher and Logan Brown

ISEF Finalists:

Kara Fan

Saanvi Dogra

Congratulations to our 2023

GRAND AWARD Winners