

2019 GSDSEF Senior Division Categorical Awards (Alpha)

| Place | Proj# | Team | Last Name | First Name | Grade | Category | Project Title | School | Teacher |
|-------|-------|------|------------------|-------------|-------|---|--|-----------------------------|---------------------------|
| 4th | 186 | | Abdurrahman | Hasan | 9 | Medicine & Health Sciences | Viability of Smartphone Hearing Test Applications for Early Hearing Loss Detection | Mt. Everest Academy | Athena Apazidis |
| 1st | 187 | | Agashe | Ruchi | 11 | Medicine & Health Sciences | Identification of Treatments for Hemophilic Joint Disease through Evaluation of Vascular Defects via Optimization of Imaging | Canyon Crest Academy | Ariel Haas |
| 2nd | 150 | | Amanullah | Yusuf | 10 | Engineering: Electrical & Mechanical | An Advanced Bicycle Safety System to Prevent Rider Injuries | Mt. Everest Academy | Norm Negus |
| 2nd | 105 | | Bahena Hernandez | Laritza | 9 | Behavioral & Social Sciences | In School vs Out of School Therapy | Gompers Preparatory Academy | Jessica Ulllyott |
| 3rd | 215 | | Barrett | Brianna | 10 | Physics & Astronomy | The Effect of Weather on the Speed of a Softball | Central Union High | Lourdes Rueda |
| 2nd | 161 | T | Beg | Harris | 11 | Engineering: Materials & Bioengineering | A Novel Approach to Dermatology via Neural Networks | Canyon Crest Academy | Ariel Haas |
| 2nd | 106 | | Belbese | Ahmed | 11 | Behavioral & Social Sciences | Training Makes Perfect | Charter School of San Diego | Najwan Naserelddin |
| 1st | 151 | | Bodenhamer | Tyler | 9 | Engineering: Electrical & Mechanical | Engineering a 3D Printer Built with Recycled Computer Parts | Serra High | Daniel Gonia |
| 1st | 216 | | Broudy | Isaac | 11 | Physics & Astronomy | Developing a Linear Polarimeter for Astrophysical Tests of Beyond Standard Model Physics | Bonita Vista High | Michelle Mardahl-Dumesnil |
| 1st | 107 | | Cai | Sean | 10 | Behavioral & Social Sciences | Analyzing Stratified Ethical Behavior at Executive Levels with Firm-Corruption Shareholder Models | Scripps Ranch High | Elaine Gillum |
| 1st | 162 | | Caligiuri | Christopher | 10 | Engineering: Materials & Bioengineering | BrainBot: Integrated Robotics Platform for Modeling and Interacting with Cortical Organoids | Canyon Crest Academy | Ariel Haas |

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| 3rd | 220 | | Camacho | Karla | 12 | Plant Sciences | Effect of Microwave Radiation on Raphanus sativus and Saccharomyces cerevisiae | Central Union High | Lourdes Rueda |
| 3rd | 152 | T | Cantwell | Amanda | 12 | Engineering: Electrical & Mechanical | Sensing Your Concentration | Central Union High | Lourdes Rueda |
| 1st | 163 | T | Catanzaro | Francisco | 10 | Engineering: Materials & Bioengineering | Measuring Chlorophyll Fluorescence and Spectral Reflectance for the Remote Sensing of Agriculture | Cathedral Catholic High | Tracey Milani |
| 1st | 163 | T | Catanzaro | Isabella | 12 | Engineering: Materials & Bioengineering | Measuring Chlorophyll Fluorescence and Spectral Reflectance for the Remote Sensing of Agriculture | Cathedral Catholic High | Tracey Milani |
| 3rd | 208 | | Chang | James | 10 | Microbiology | Creating a Strain of IFN-Producing Bacteria which Survives in Human Gut | Canyon Crest Academy | Ariel Haas |
| 1st | 129 | | Chaudhuri | Anushree | 11 | Chemistry | A Porous Silicon Optical Nanosensor for Toxic Organic Vapors | Westview High | Diana Loo |
| 1st | 133 | | Chowdhuri | Sauhaarda | 11 | Computer Science | PhonoNet: Deep Learning For Raga Identification In Indian Classical Music | Westview High | Dom David |
| 2nd | 108 | | Chung | Claire | 10 | Behavioral & Social Sciences | Analyzing Correlative Evidence Between Social Media Use and Depressive Symptoms | Rancho Bernardo High | Diane Hotz |
| 3rd | 188 | T | Cibrian | Alecsander | 10 | Medicine & Health Sciences | Pizza Grease | Central Union High | Lourdes Rueda |
| 2nd | 189 | T | De La Rosa | Alexis | 12 | Medicine & Health Sciences | Sensory Screening Test For Dementia | Central Union High | Lourdes Rueda |
| 2nd | 176 | | Decilap | Ambre | 12 | Environmental Sciences & Management | The Effect of Nitrate Runoff on Microbial Fuel Cells | Bonita Vista High | Michelle Mardahl-Dumesnil |

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| 2nd | 153 | | Dehaini | Hamza | 10 | Engineering: Electrical & Mechanical | Reducing the Amount of Wildfires Caused by Power Line Snapping | Scripps Ranch High | Najwan Naserelddin |
| 3rd | 118 | | Del Olmo | Sarah | 12 | Biochemistry | Does a Peeled Apple a Day Keep the Doctor Away? | Bonita Vista High | Michelle Mardahl-Dumesnil |
| 3rd | 109 | T | Dela Rosa | Patrick | 9 | Behavioral & Social Sciences | The Effect of Regular Mode versus Night Mode on iPhone User's Sleep during School Days | Sweetwater Union High | Sofia Sandoval |
| 1st | 190 | | Dogra | Arushi | 11 | Medicine & Health Sciences | Effects of Novel Dual PI3K-BRD4 Inhibitor SF2523 on Mantle Cell Lymphoma Survivorship | Del Norte High | Lisa Smedley |
| 4th | 154 | | Duong | Han | 9 | Engineering: Electrical & Mechanical | Power of Turbines | Eastlake High | Cheryl Bayley |
| 1st | 134 | | Elarabawy | Adham | 11 | Computer Science | Predicting Optimal Farming Regions via Machine Learning Trained on Novel Vegetation Index | Canyon Crest Academy | Ariel Haas |
| 1st | 182 | | Faktor | Benjamin | 10 | Mathematical Sciences | Solution Of Lotka-Volterra Equations For Novel Analysis | Canyon Crest Academy | Ariel Haas |
| 1st | 135 | T | Fan | Leonard | 11 | Computer Science | Predicting Blood Glucose Level In Type 1 Diabetes Patients Using Recurrent Neural Networks | Canyon Crest Academy | Ariel Haas |
| 3rd | 109 | T | Flores | Raffiele | 9 | Behavioral & Social Sciences | The Effect of Regular Mode versus Night Mode on iPhone User's Sleep during School Days | Sweetwater Union High | Sofia Sandoval |
| 3rd | 136 | | Fowler | Lou | 9 | Computer Science | The Red Schoolhouse: A Tool For Assessing Environmental Risk In SDUSD Schools | Academy of Our Lady of Peace | Margaret Wiedower |
| 1st | 119 | | Gan | Jessie | 10 | Biochemistry | Using Bioinformatics Tools to Identify Epitopes in MMP-15, a Potential Lung Cancer Drug Target | San Diego Jewish Academy | Cheryl Eisen |

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| 2nd | 191 | T | Gandarilla | Sofia | 11 | Medicine & Health Sciences | Bye Bye Bacteria | Eastlake High | Cheryl Bayley |
| 2nd | 137 | T | Granja | Tatiana | 10 | Computer Science | Food Fetch | San Pasqual High | Erin Duran |
| 1st | 165 | T | Gurram | Sumanth | 12 | Engineering: Materials & Bioengineering | Electromagnetic Fields Inhibit Cancer Proliferation: An Interdisciplinary Approach to Improve Treatment | Westview High | Scott Halander |
| 2nd | 110 | | Gutierrez | Andrea | 9 | Behavioral & Social Sciences | Filter or No Filter | Vincent Memorial Catholic High | Monserrat Turner |
| 3rd | 192 | | Hammad | Tasneem | 9 | Medicine & Health Sciences | The Effect of Natural Remedies and Nanoparticles on Cells | Bright Horizon Academy | Najwan Naserelddin |
| 1st | 221 | | He | David | 10 | Plant Sciences | Effect Of Genetic Modification Of DMR6 On Solanum Lycopersicum | Canyon Crest Academy | Ariel Haas |
| 1st | 217 | | Holst | Mason | 10 | Physics & Astronomy | An Optimized Multigrid Algorithm for Enabling Efficient Physical Simulations on Realistic Geometries | Canyon Crest Academy | Ariel Haas |
| 1st | 135 | T | Hsieh | Jonathan | 11 | Computer Science | Predicting Blood Glucose in T1D Patients Using Recursive Neural Networks | Canyon Crest Academy | Ariel Haas |
| 1st | 101 | | Huang | Aaron | 10 | Animal Sciences | How is Anxiety in C. elegans Affected by Increased Signs of Predators? | Canyon Crest Academy | Ariel Haas |
| 2nd | 166 | T | Huang | Ryan | 9 | Engineering: Materials & Bioengineering | A Microbiome - AI Sensor for Detection of UV Risk | Canyon Crest Academy | Ariel Haas |
| 2nd | 166 | T | Huang | Tristan | 11 | Engineering: Materials & Bioengineering | A Microbiome - AI Sensor for Detection of UV Risk | Canyon Crest Academy | Ariel Haas |

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| 3rd | 111 | | Jimenez | Cesar | 9 | Behavioral & Social Sciences | Concussions and Memory | Eastlake High | Cheryl Bayley |
| 1st | 209 | | Kang | Emily | 10 | Microbiology | Turning Over A New Phage: A Novel Approach To Phage Therapy | Canyon Crest Academy | Ariel Haas |
| 3rd | 167 | | Kuo | James | 10 | Engineering: Materials & Bioengineering | Semi-permeable Membrane to Minimize Traffic Disruptions When Re-painting Roads | La Jolla High | James Kuo |
| 2nd | 155 | | Kuo | Marc | 9 | Engineering: Electrical & Mechanical | Visual Field Mapping By Embedded LED Array | La Jolla High | James Kuo |
| 2nd | 194 | | Lara | Mary Jasmine | 12 | Medicine & Health Sciences | PHLPP's Protective Properties: Nicotine's Attenuation on Drug Therapies Targeting Cardiac Arrest | Olympian High | Michael Claudio |
| 1st | 195 | | Lee | Ji Hyun | 12 | Medicine & Health Sciences | Creating a Three Dimensional Airway Cell Culture to Study Asthma | Canyon Crest Academy | Ariel Haas |
| 1st | 138 | | Levine | Alex | 12 | Computer Science | Efficiently Identifying High-Centrality Actors in Modular Networks | La Jolla High | Holly Eaton |
| 1st | 159 | | Lew | Ken | 11 | Engineering: Energy & Transport | Graphene Composite Material and Heatsink Application in Fire Resistant Drone Design | La Jolla Country Day School | Daniel Padgett |
| 1st | 196 | | Liu | Andrea | 12 | Medicine & Health Sciences | The Role of G-CSF-R in Medulloblastoma Cancer Stem Cells and Pathogenesis | Canyon Crest Academy | Ariel Haas |
| 1st | 139 | | Liu | Daniel | 11 | Computer Science | Extending Adversarial Attacks and Defenses to Deep 3D Point Cloud Classifiers | Torrey Pines High | Julia Newman |
| 2nd | 140 | | Lu | Junyi | 11 | Computer Science | Air and Quality Detector | Canyon Crest Academy | Ariel Haas |

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| 1st | 183 | | Madhukara | Rachana | 11 | Mathematical Sciences | Error Term Analysis for Weighted Character Sums | Canyon Crest Academy | Ariel Haas |
| 2nd | 197 | | Mandyam | Atulya | 9 | Medicine & Health Sciences | Cell-death by Methamphetamine is related to increased activation of Caveolin-1 and Kinases | Westview High | Matt Christopher |
| 3rd | 198 | | Matute | Nachelle | 12 | Medicine & Health Sciences | The Effects of Music on the Heart | Bonita Vista High | Michelle Mardahl-Dumesnil |
| 4th | 120 | | Montano | Luz | 10 | Biochemistry | Brightness of Luminol | Central Union High | Lourdes Rueda |
| 2nd | 210 | | Mulvehill | Allison | 11 | Microbiology | The Effects of Sodium Benzoate on Micronuclei Occurrence in HEK293 Cells | Canyon Crest Academy | Ariel Haas |
| 1st | 131 | | Murray | Will | 11 | Chemistry | Understanding Ratiometric Imaging of Porous Silicon (pSi) Nanoparticles for Functional Imaging and Selective Sensing Applications | Francis Parker School | Jonathan Ziegler |
| 3rd | 211 | | Murthy | Adhithi | 9 | Microbiology | Finding An Alternative to Antibiotics: Year 3 | Del Norte High | Elaine Gillum |
| 3rd | 177 | | Nafarrete | Noah | 11 | Environmental Sciences & Management | The Impact of Plants on Soil Erosion and Turbidity | Bonita Vista High | Michelle Mardahl-Dumesnil |
| 2nd | 189 | T | Negrete | Alexis | 11 | Medicine & Health Sciences | Sensory Screening Test for Dementia | Central Union High | Lourdes Rueda |
| 2nd | 191 | T | Nogueira | Tamara | 11 | Medicine & Health Sciences | Bye Bye Bacteria | Eastlake High | Cheryl Bayley |
| 3rd | 112 | T | Orozco | Savanah | 10 | Behavioral & Social Sciences | Typed vs Handwritten Notes | Central Union High | Lourdes Rueda |

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| 2nd | 168 | | Palayur | Ann | 11 | Engineering: Materials & Bioengineering | Computerized Muscle Control for Paralyzed Patients Using Non-Toxic Batteries | St. Joseph Academy | Paul Kerekes |
| 3rd | 141 | | Park | Seonggeun | 11 | Computer Science | Physics Phun: The Gamification of Physics Education through a Mobile App | Olympian High School | Michael Claudio |
| 1st | 113 | | Patil | Pranav | 11 | Behavioral & Social Sciences | Determining the Effectiveness of Video Games in Cybersecurity Education | Del Norte High | Frank Liao |
| 1st | 156 | | Peluso | Brent | 12 | Engineering: Electrical & Mechanical | Electrothermally Cooling a Pitcher's Arm | Canyon Crest Academy | Ariel Haas |
| 2nd | 199 | | Piccioni | Sofia | 11 | Medicine & Health Sciences | Novel Method Using CRISPR CAS9 to Change K562 Cells' Blood Type | Canyon Crest Academy | Ariel Haas |
| 3rd | 152 | T | Plancarte | Victor | 12 | Engineering: Electrical & Mechanical | Sensing Your Concentration | Central Union High | Lourdes Rueda |
| 1st | 169 | | Pollner | Alina | 11 | Engineering: Materials & Bioengineering | Super-Mendelian Inheritance Mediated by CRISPR-Cas9: Bioengineering Plant Genomes to Increase Crop Production | Canyon Crest Academy | Ariel Haas |
| 2nd | 170 | T | Rabe | Heidi | 12 | Engineering: Materials & Bioengineering | Improvising Instruments | Central Union High | Lourdes Rueda |
| 2nd | 212 | | Rainey | Georgia | 9 | Microbiology | The Effect of Different Colored Lights on Dinoflagellate Luminescence | Mt. Everest Academy | Athena Apazidis |
| 1st | 200 | | Randhawa | Omer | 11 | Medicine & Health Sciences | The Impact of the APOE gene on Alzheimer's Gender Discrepancy Genetics | Scripps Ranch High | Elaine Gillum |
| 2nd | 171 | | Randhawa | Waleed | 9 | Engineering: Materials & Bioengineering | A Digital Dual-Hormone Artificial Pancreas: A Year Two Study | Scripps Ranch High | Elaine Gillum |

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| 2nd | 142 | | Rao | Adithya | 11 | Computer Science | Android AiSL : American Sign Language (ASL) Fingerspelling to Speech Translator Using Artificial Intelligence on Android | Canyon Crest Academy | Ariel Haas |
| 1st | 157 | | Reddy | Rakesh | 11 | Engineering: Electrical & Mechanical | Affordable Off-site 3D-printable Below-the-Knee (BKA) Prosthesis | Francis Parker School | Jonathan Ziegler |
| 1st | 172 | | Reeb | Remy | 11 | Engineering: Materials & Bioengineering | Reducing the Incidence of Falls Among the Elderly | Cathedral Catholic High | Jeanette Lopatka |
| 3rd | 112 | T | Reyna Montoya | Alex | 10 | Behavioral & Social Sciences | Typed vs. Handwritten Notes | Central Union High | Lourdes Rueda |
| 2nd | 170 | T | Rosales | Ricardo | 12 | Engineering: Materials & Bioengineering | Improvising Instruments | Central Union High | Lourdes Rueda |
| 1st | 160 | | Schremmer | Zachary | 11 | Engineering - Energy & Transport | Stirling Engine Combined Heat and Power Systems | University City High | Maureen Quessenberry |
| 2nd | 184 | | Shimabukuro | Benjamin | 10 | Mathematical Sciences | Coin Flip Fairness | Mt. Everest Academy | Huy Tran |
| 1st | 143 | | Soliman | Ziyad | 9 | Computer Science | Pass Your Bill: Understanding Legislation Using Machine Learning | Mt. Everest Academy | Najwan Nasereldin |
| 2nd | 114 | | Stallworth | Kayla | 10 | Behavioral & Social Sciences | The Effect of Music on Human Reaction Time | Central Union High | Lourdes Rueda |
| 2nd | 144 | | Sumpena | Edmund | 9 | Computer Science | aTrack: Cost-Effective Asset Tracking Based on Cooperative Crowdsourced Mobile Sensors | Westview High | Scott Halander |
| 2nd | 161 | T | Sun | William | 12 | Engineering: Materials & Bioengineering | A Novel Approach to Portable Dermatology | Canyon Crest Academy | Ariel Haas |

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| 3rd | 178 | | Sung | Anthony | 9 | Environmental Sciences & Management | Go Green Roofs | The Cambridge School HS | Melissa Mayne |
| 2nd | 201 | | Suri | Umit | 11 | Medicine & Health Sciences | Risk Factors and Outcomes of Infants with Pneumothorax | Francis Parker School | Jonathan Ziegler |
| 1st | 202 | | Tahan | Alexander | 10 | Medicine & Health Sciences | Enhanced MAF Gene Expression as a Novel Strategy for Cancer Treatment | Canyon Crest Academy | Ariel Haas |
| 1st | 203 | | Tang | Jason | 10 | Medicine & Health Sciences | USP7 Inhibitor as a Novel Therapeutic Treatment for Triple Negative Breast Cancer | Canyon Crest Academy | Ariel Haas |
| 3rd | 188 | T | Tanori | Efrain | 10 | Medicine & Health Sciences | Pizza Grease | Central Union High | Lourdes Rueda |
| 1st | 173 | | Tianshi | Emily | 10 | Engineering: Materials & Bioengineering | Biomimicking Torrey Pine Needles: Atmospheric Moisture Harvesting Through Alternating Hydrophilic/Hydrophobic Micro- | The Cambridge School HS | Melissa Mayne |
| 1st | 179 | | Tucker | Timothy | 11 | Environmental Sciences & Management | Vehicle Emissions and Tropospheric Ozone | Bonita Vista High | Michelle Mardahl-Dumesnil |
| 2nd | 180 | T | Vargas | Alfred | 12 | Environmental Sciences & Management | Photocatalytic Treatment of Wastewater and Generation of Electricity Through Hydrogen Fuel Cell Technology | Sweetwater Union High | Sofia Sandoval |
| 2nd | 180 | T | Vargas | Audrey | 10 | Environmental Sciences & Management | Photocatalytic Treatment of Wastewater and Generation of Electricity Through Hydrogen Fuel Cell Technology | Sweetwater Union High | Sofia Sandoval |
| 2nd | 121 | | Verdolin | Michael | 11 | Biochemistry | Pyogenic Urine May Affect Accuracy of LCMS Urine Drug Testing | Eastlake High | Cheryl Bayley |
| 1st | 218 | | Vijayakumar | Vivek | 10 | Physics & Astronomy | Analysis of Molecular Spectra in AGB Carbon Stars | San Marcos High | Robert Terrill |

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| 3rd | 122 | | Vu | Elise | 10 | Biochemistry | Gene Expression and Repression in Embryonic Stem Cells and Neural Progenitor Cells | Canyon Crest Academy | Ariel Haas |
| 1st | 205 | | Wang | Kaitlyn | 11 | Medicine & Health Sciences | shRNA-Mediation of UGGT1 to Modulate Excessive Procollagen Secretion in Cardiac Fibrosis | Canyon Crest Academy | Ariel Haas |
| 3rd | 204 | | Wang | Kate | 10 | Medicine & Health Sciences | A Computational Approach for Modeling Nonsense Mutations in DMD | Canyon Crest Academy | Ariel Haas |
| 2nd | 123 | | Wong | Elleanor | 12 | Biochemistry | Investigation of Hydrolytic Enzymes Present in Commercial Probiotics Using Starch and Lactose | Bonita Vista High | Michelle Mardahl-Dumesnil |
| 1st | 165 | T | Wu | David | 12 | Engineering: Materials & Bioengineering | Electromagnetic Fields Inhibit Cancer Proliferation: An Interdisciplinary Approach to Improve Treatment | Westview High | Scott Halander |
| 1st | 145 | | Wu | Dustin | 11 | Computer Science | Convolutional Neural Network Ensemble For Histopathologic Cancer Metastasis Detection | Pacific Ridge High | Rajshree Mudaliar |
| 3rd | 124 | | Yang | Joyce | 11 | Biochemistry | Effect of shRNA on GnRH-R Synthesis | Canyon Crest Academy | Ariel Haas |
| 2nd | 137 | T | Yang | Macey | 10 | Computer Science | FoodFetch | San Pasqual High | Erin Duran |
| 2nd | 125 | | Yao | Derrick | 11 | Biochemistry | Machine Learning Based Primer Design for Recombinase Polymerase Amplification | Canyon Crest Academy | Ariel Haas |
| 2nd | 146 | | Yaramada | Sahithy | 11 | Computer Science | Detecting Abnormal RBCs with Computer Vision | Canyon Crest Academy | Ariel Haas |
| 1st | 115 | | Young | Caneel | 11 | Behavioral & Social Sciences | Is Lactobacillus Rhamnosus the Solution to Anxiety Relief? | Canyon Crest Academy | Ariel Haas |

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| 2nd | 126 | | Zhang | Paul | 10 | Biochemistry | Computational Discovery of Novel PIEZO2 Inhibitors to Potentially Treat Tactile Allodynia | Canyon Crest Academy | Ariel Haas |
| 2nd | 213 | | Zhu | Wanyi | 10 | Microbiology | Role of dpy-13 in Osmotic Stress Resistance in Caenorhabditis Elegans Eggs | Canyon Crest Academy | Ariel Haas |
| 4th | 147 | | Zhuang | Hsiang-Kuang | 9 | Computer Science | The Most Effective Characteristics of a Secure Password | Mt. Everest Academy | Athena Apazidis |