

2023 PVPSEF Award Winners

Category Winners

Animal Sciences

1st Place - Ashley Deng

2nd Place - Christopher Lachowicz, Ty Sorenson, Cole Vranich

3rd Place - Annika Gruettemann

Behavioral and Social Sciences

1st Place - Sydney Chung

2nd Place - Sara Moshfeghi

3rd Place - Lily Bohannon, Megan White

Biomedical Engineering

1st Place - Christine Xie

2nd Place - Andreas Tempereau

3rd Place - William Huang

Biomedical and Health Sciences

1st Place - Claire Dokko

2nd Place - Ashley Chang

3rd Place - Sakurako Cho & Audrey Lu

Translational Medical Sciences

1st Place - Brielle Young

2nd Place = Naomi Kao

3rd Place - Mike Lee

Chemistry

1st Place - Bryce Tom & Jacob Ma

2nd Place - Adam Ashcroft, Megan Ashcroft

3rd Place - Aila Shibao

Biochemistry

1st Place - Nicholas White, Alan Ichikawa-Chang & Nathan Leung

2nd Place - Ava Simpson

Cellular & Molecular Biology

1st Place - Lena Peresztegi, Dani Peresztegi, Anna Peti-Peterdi

2nd Place - Victoria Jung

3rd Place - Parth Ingle

Earth and Environmental Sciences

1st Place - Gray Rappoport

2nd Place - Erica Ro

3rd Place - Chloe Choi

Energy: Sustainable Materials

1st Place - Jaehoon Kim & Austin Pong

2nd Place - Inu Cho

3rd Place - Hayleigh Liu, Lucia Ruiz

Environmental Engineering

1st Place - Annalia Hendsen

2nd Place - Sara Donato & Roshini Muppana

3rd Place - Arthur Qin & Rithvik Veturi

Engineering Technology

1st Place - Anish Anand

2nd Place - George Bohorquez

Materials Science

1st Place - Sophie Sun

2nd Place - Christopher Campbell

Mathematics

1st Place - Anthony Yoon

2nd Place - Rishikesh Muppana

Physics

1st Place - Brindha Srivatsav

2nd Place - Shuyi Yu & William Zhang

3rd Place - Will Ziolkowski

Embedded Systems

1st Place - Yifan Gu & Kaibo Yuan

Microbiology

1st Place - Katherine Le

2nd Place - Ava Chessmore, Kamrin Fuchs

3rd Place - Anna Kim

Plant Sciences

1st Place - Arman Omidvar & Chris Yang

2nd Place - Maryam Soliman, Sydney Wynn

3rd Place - Oliva McPhee

Robotics and Intelligent Machines

1st Place - Jenna Chow

2nd Place - Gia Bohorquez and Ransom Liu

3rd Place - Eugene Lee

Computational Biology

1st Place - Justin Liu

2nd Place - Lauren Jung & Flora Yi

3rd Place - Yewon Kang & Yejun Kang

Systems Software

1st Place - Anthony Valencia & Jason Wiemels

2nd Place - Prady Raja

3rd Place - Ryan Lo

Special Awards

American Psychological Association Award

Sara Moshfeghi

Danielle Nikmehr

Association of Women Geoscientists Award

Sara Donato

Roshini Muppana

NASA Earth System Science Award

Deetya Srivatsavaya

Jennifer Arca

NOAA Taking the Pulse of the Planet Award

Shirzad Sheybani

Chloe Choi

National Geographic Society - That's Geography! \$100 Award

Jaehoon Kim & Austin Pong

Office of Naval Research - Naval Science Award

Anish Anand

Gia Bohorquez & Ransom Liu

RICOH Sustainable Development Award

Erica Ro

Sophie Sun

Regenron Biomedical Science Award

Naomi Kao

Society for In Vitro Biology Award

Claire Dokko

Christine Xie

United States Air Force Award

Vanya Agrawal, Audrey Munro & Michelle Nikmehr

Andreas Tempereau

U.S. Agency for International Development Award

Aiden Kwon

Harper Holden

US Metric Association Award

Chris Yang & Arman Omidvar

Frances Stott

U.S. Stockholm Junior Water Prize

Zahra Habib

Lena Wen & Natalie Tom

Annika Gruettemann

Brylee Ireland

Alina Montalvan

Isabella Cordi

Yale Science and Engineering Award

Prady Raja

LA County Science Fair

These 13 projects have advanced to the [Los Angeles County Science Fair](#) which will take place on March 13th at The Shrine Auditorium & Expo Hall

Palos Verdes High School

Jenna Chow

Annika Gruettemann

Annalia Henderson

Naomi Kao

Christopher Lachowicz, Ty Sorenson & Cole Vranich

Lena Peresztegi, Dani Peresztegi & Anna Peti-Peterdi

Gray Rappoport

Ava Simpson

Maryam Soliman & Sydney Wynn

Sophie Sun

Andreas Tempereau

Christine Xie

Anthony Yoon

Peninsula High School

Anish Anand

Ashley Deng

Claire Dokko

Sara Donato & Roshini Muppana

William Huang

Katherine Le

Justin Liu

Sara Moshfeghi

Brindha Srivatsav

Erica Ro

Chris Yang & Arman Omidvar

Anthony Valencia & Jason Wiemels

Brielle Young

ISEF - The International Science and Engineering Fair

These six projects are headed to Dallas in May to present in the prestigious [International Science and Engineering Fair](#). The judges determined that they are the top projects and are ready to compete with the best science fair projects from around the world.

Anish Anand: A Novel Control System for Autonomous Quadcopter Navigation

William Huang: SuperVision: A Novel Integrated Sensing and Computational Framework to Enable Superhuman Epiretinal Prostheses

Justin Liu: A Super-Resolution AI Engine and Multi-Agent Abnormality Detection Pipeline for Early Blindness Prevention

Lena Peresztegi, Dani Peresztegi & Anna Peti-Peterdi: The Development of the C2F Seawater to Freshwater Converting Bioplat

Gray Rappoport: Crosslinking Citrus Polysaccharides to Create a Cheap, Effective SAP Substitute

Christine Xie: Hydrogel-assisted Brain Transplantation of HOXA3-induced Vascular Progenitors for Brain Repair after Stroke