



**BUCKEYE
SCIENCE
& ENGINEERING FAIR**

American Psychological Association

Evan Dan

*Insights of Suicide Factors from Thematic Analysis and
Machine Learning-Based Detection of Suicidal*

Association for Women Geoscientists

Rebekah Rapp

*Assessing the impact of wildfire smoke on PM2.5 levels and
comparing outdoor and indoor air quality*

NASA Earth System Science Award

Xuan Huang

*Exploring the Viability of Substituting Copper Doping
with Silver Doping in CdTe Solar Cells*

National Oceanic and Atmospheric Administration (NOAA)

Rebekah Rapp

*Assessing the impact of wildfire smoke on PM2.5 levels
and comparing outdoor and indoor air quality*

Regeneron Biomedical Science Award

Joseph Wright

CFD Simulations Prevent Brain Aneurysms

Naval Science Award

Kara Jones

*Carotenoid biofortification of yolks to
produce more nutritious eggs*

Ryan Wang

*Development of Persistent DNA Vectors for
Safe and Lasting Non-viral Gene Therapies*

Evan Dan

*Insights of Suicide Factors from
Thematic Analysis and Machine
Learning-Based Detection of Suicidal*

Ricoh USA, Inc.

Laasya Acharya

*Multimodal Network with Dynamic Hyperparameter
Selection within UAV for Early Crop Disease Detection*

Society for In Vitro Biology

Ananya Singh

MDMA Toxicity in Zebrafish

U.S. Agency for International Development **(USAID)**

Kara Jones

*Carotenoid biofortification of yolks to
produce more nutritious eggs*

U.S. Metric Association

Amelia Lamont

Phosphorescence Rocks!

United States Air Force

Daniel Lust

*Characterization of Porcine
Spinal Cord Segments Using
3D Reconstruction of Micro-
CT Imaging*

Niklas Rietsch

*The Role of Neuronal Primary
Cilia in Alzheimer's Disease*

Justice Ari

*Observing the Effects of
Trailing-Edge and Leading-
Edge Serrations on UAV
Propellers to Reduce Noise*

Yale Science and Engineering Association

Haasini Mendu

*TremorSense: A Novel Parkinsonian Tremor
Monitoring and Suppression System*

Second Round Qualifiers

Laasya Acharya

Second Round Qualifiers

Evan Dan

Second Round Qualifiers

Rahhul Elangovan

Second Round Qualifiers

Kara Jones

Second Round Qualifiers

Chinmay Khare

Second Round Qualifiers

Haasini Mendu

Second Round Qualifiers

Charlie Pochet

Second Round Qualifiers

Niklas Rietsch

Second Round Qualifiers

Joseph Wright



Thank You!