2022 Connecticut Junior Science and Humanities Symposium Results

Students Lily Donzeiser, Maya Rose Chiravuri, Sebastian Mengwall, Snigtha Mohanraj, and Ryan Kim have been selected to represent Connecticut at the April 2022 National Junior Science and Humanities Symposium in Albuquerque, NM. (Image from Connecticut Junior Science and Humanities Symposium, held virtually March 5, 2022.)

Oral Competitors

1st Place: Snigtha Mohanraj, freshman, Engineering and Science University Magnet School
Ferro-Sponge: An Investigation into the Usage of Metal Oxides for the Removal of Microplastics and Oil from Water

2nd Place: Sebastian Mengwall, senior, Darien High School
Cloud Identification in Mars Daily Global Maps with Deep Learning

3rd Place: Ryan Kim, junior, Choate Rosemary Hall
JARVITS: A Novel Deep Learning IoT Traffic Control System for Real-Time Detection and Signal Optimization

4th Place: Lily Donzeiser, senior, Darien High School
Evolutionary Responses to Climate Change in a Long-Distance Migratory Songbird: the Scarlet Tanager

5th Place: Gouri Krishnan, junior, King School
Electrochromism Paired with Finite Difference Time Domain Modeling Allows for the Successful Prediction of Color Change Achieved by Electrochromic Reactions

6th Place: Audrey Lin, sophomore, Greenwich High School
Eco-friendly Remediation of Polycyclic Aromatic Hydrocarbons in Stormwater via Magnesium-Infused Calcite Crystal, Supramolecular Hydrogel Scaffolding

Special Merit: William Bernfeld, King School; Avni Kabra, East Lyme High School; Naomi Park, Greenwich High School; and Elizabeth Wallace, Greenwich High School

Poster Competitors

1st Place: Maya Rose Chiravuri, junior, Choate Rosemary Hall
Development of a Home N-Terminal Pro-Brain Natriuretic Peptide Assay for Early Detection of Congestive Heart Failure

2nd Place: John Russell, junior, King School
Designing and Testing an Activated Carbon Cloth Filter to Reduce the Prevalence of Phosphates and Nitrates in the Long Island Sound

3rd Place: Ambika Grover, junior, Greenwich High School
Design of a Novel, Dual-Functioning Tissue Plasminogen Activator and Anticoagulant Therapeutic for Rapid Ischemic Stroke Treatment

UConn Academic Excellence Scholarship

Ryan Kim, junior, Choate Rosemary Hall
JARVITS: A Novel Deep Learning IoT Traffic Control System for Real-Time Detection and Signal Optimization

Backyard Scientist Awards

Angela Ferraro, senior, Bridgeport Regional Aquaculture Science & Technology Education Center
Developing a Fully Plant-Based Sustainable and Renewable Replacement for a Polychloroprene Fabrication

Snigtha Mohanraj, freshman, Engineering and Science University Magnet School
Ferro-Sponge: An Investigation into the Usage of Metal Oxides for the Removal of Microplastics and Oil from Water

Presidential Scholar Award Nominees

Melinda Lu, junior, Amity Regional High School
In Vivo Imaging of Structural Connectivity and Synaptic Density in Alzheimer's Disease

Adeethyia Shankar, junior, Brookfield High School
Wavelet Based Machine Learning Approaches Toward Precision Medicine in Diabetes Mellitus

People's Choice Award (STEM Poster Exhibitor)

Aidan King, senior, Bridgeport Regional Aquaculture Science and Technology Education Center
Utilizing Rooftop Gardens as a Means of Geothermal Energy for Buildings through Ground to Air Heat Transfer Systems

Teacher Award

Victoria Schulman, King School