

EUCYS 2022 Prizes

33rd European Union Contest for Young Scientists, Leiden

The First Prize

Name	Gender/Age/Nat.	Project title
Aditya Kumar	Male 15 Ireland	A New Method of Solving the Bernoulli Quadrisection Problem
Aditya Joshi	Male 15 Ireland	A New Method of Solving the Bernoulli Quadrisection Problem
Andreas Strommer	Male 19 Austria	Vertical axis wind turbine with integrated centrifugal flaps
Michael Lukas Strudler	Male 19 Austria	Vertical axis wind turbine with integrated centrifugal flaps
Meda Surdokaitė	Female 19 Lithuania	Optimization of the Synthesis of the Fluorescent Dye "Nile Red"
Konrad Basse Fisker	Male 19 Denmark	Integration of Dsup in Nannochloropsis Oceanica

The Second Prize

Name	Gender/Age/Nat.	Project title
Veronika Martinková	Female 19 Czech Republic	Rearrangements of N-aryl hydroxamic acid methanesulfonates
Radostin Lozanov Cholakov	Male 16 Bulgaria	The GatedTabTransformer. An Attention-Based Deep Learning Architecture For Tabular Modeling.
Hanze (Louis) Wu	Male 17 Canada	FourSight: Analysis of Cancerous Genetic Profiles With Artificial Neural Networks
Koral Kulacoglu	Male 17 Canada	FourSight: Analysis of Cancerous Genetic Profiles With Artificial Neural Networks
Jakub Gál	Male 19 Slovakia	Optimized CNN implemented on TPU camera on autonomous robot and open-source analogue neural network accelerator with a parallel pipeline

The Third Prize

Name	Gender/Age/Nat.	Project title
Angelos-Michail Chouvardas	Male 18 Greece	E-aimodotes/Information system and immediate notification of blood donation needs
Aleandro Kurtidhis	Male 17 Greece	E-aimodotes/Information system and immediate notification of blood donation needs
Gaetan Barette	Male 17 Belgium	Automated Darts Robot
Annabelle Rayson	Female 17 Canada	Plankton Wars: An Innovative Analysis of Daphnia Genotype Biomanipulation for Algae Bloom Prevention
Bartłomiej Bychawski	Male 19 Poland	Some finite index subgroups of the braid group B_3

SIYSS

Name	Gender/Age/Nat.	Project title
Meda Surdokaitė	Female 19 Lithuania	Optimization of the Synthesis of the Fluorescent Dye "Nile Red"
Konrad Basse Fisker	Male 19 Denmark	Integration of Dsup in Nannochloropsis Oceanica

ESA

Name	Gender/Age/Nat.	Project title
Nadezhda Komarova	Female 18 Slovenia	Reconstruction of the image space depicted in paintings

CERN

Name	Gender/Age/Nat.	Project title
Steven Ognyanov Spasov	Male 18 Bulgaria	Bidiagonal decompositions of (singular) Vandermonde-type matrices

EUROFusion

Name	Gender/Age/Nat.	Project title
Patricia González Piquero	Female 18 Spain	INFLUENCE OF THE CULTURAL LEVEL IN THE EXTINCTION OF HOMO NEANDERTHALENSIS IN ITS COMPETITION WITH HOMO SAPIENS: ANALYSIS THROUGH THE GAME OF CONTESTS

ESRF

Name	Gender/Age/Nat.	Project title
Benedek László Barna	Male 17 Hungary	Developing a Motorized UV Illuminator Device for Photochemical Ligand- Binding

EMBL

Name	Gender/Age/Nat.	Project title
Alexander Marks	Male 18 Norway	Antibiotic-induced Release of Lipopolysaccharide from Escherichia Coli
August Andre Lukkassen	Male 19 Norway	Antibiotic-induced Release of Lipopolysaccharide from Escherichia Coli
Martin Thormodsrud	Male 19 Norway	Antibiotic-induced Release of Lipopolysaccharide from Escherichia Coli

ESO

Name	Gender/Age/Nat.	Project title
Vanessa Guthier	Female 19 Germany	A solution for the enigma of gamma rays: Star clusters creating gamma sources

ILL

Name	Gender/Age/Nat.	Project title
Kahan Petr	Male 19 Czech Republic	Preparation and characterization of spin polarized tips for tunneling microscopy

XFEL

Name	Gender/Age/Nat.	Project title
Maximilian Peter Theimer	Male 19 Switzerland	3D printing a geometry optimized BMX sized bike frame at home

JRC

Name	Gender/Age/Nat.	Project title
Alice Louise Heiman	Female 19 Sweden	Exposure to Fine and Ultrafine Particles in the Stockholm Subway
Alicia Hedvig Helena Larsen	Female 20 Sweden	Exposure to Fine and Ultrafine Particles in the Stockholm Subway
Jitka Waldhauserová	Female 19 Czech Republic	The influence of landscape on nest preferences and behavior of twig nesting Hymenoptera
Anish Reddy Athmakoor	Male 18 Norway	What is the price elasticity of demand (PED) of sugary foods for teenagers at an online sweet shop located in Stavanger, Norway?

CNIC Prize

Name	Gender/Age/Nat.	Project title
Lucia Cengelova	Female 20 Slovakia	Computational design and experimental construction of stable enzymes

CBE JU

Name	Gender/Age/Nat.	Project title
Lucas Joaquim Sousa Dória	Male 16 Portugal	Use of banana tree cellulose pulp for the removal of microplastics from contaminated water
José Tiago Fernandes Vieira	Male 18 Portugal	Use of banana tree cellulose pulp for the removal of microplastics from contaminated water

Swiss talent forum

Name	Gender/Age/Nat.	Project title
Gabriela Szczepanik	Female 19 Poland	Penetration field preference of pollinators

Expo-Sciences Luxembourg

Name	Gender/Age/Nat.	Project title
Jasmin Schalli	Female 19 Austria	Finding a specific agent and its dosage against American foulbrood
Lorenz Paul Hinterplattner	Male 20 Austria	Finding a specific agent and its dosage against American foulbrood
Markus Bollwein	Male 20 Austria	Finding a specific agent and its dosage against American foulbrood

EuCheMS

Name	Gender/Age/Nat.	Project title
Ema Bojnec	Female 19 Slovenia	A linear structure notation for compounds for the blind in chemistry
Daša Žuman	Female 20 Slovenia	A linear structure notation for compounds for the blind in chemistry

Naturalis Prize

Name	Gender/Age/Nat.	Project title
Lukass Roberts Kellijs	Male 18 Latvia	Forest Damage – Bark Beetle Identification Using Remote Sensing in Latvian Territories

Founding Partners Award

Name	Gender/Age/Nat.	Project title
Nóra-Anna Kovács	Female 17 Hungary	Rusty, The Social Mirror Technology
Oleh Ivankiv	Male 17 Ukraine	The Newest Smart Charging Station “Aker”
Eslam Mohamed Amen Nasr Mostafa	Male 18 Egypt	The Green Gold

Workshop on Coding Theory

Name	Gender/Age/Nat.	Project title
Miro Keimiöniemi	Male 19 Finland	The Pricing of Digital Goods in the Music Production Software Industry

Wolfram Research

Name	Gender/Age/Nat.	Project title
ÇAĞAN KOSKA	Male 16 Turkey	Classification of MGMT methylation status of glioblastoma in MRI images with AI
Steven Ognyanov Spasov	Male 18 Bulgaria	Bidiagonal decompositions of (singular) Vandermonde-type matrices
Pedro Filipe Pinho Oliveira	Male 19 Portugal	From experimental approximation to the order of magnitude of theoretical probability
José Pedro Soares Marques dos Santos	Male 19 Portugal	From experimental approximation to the order of magnitude of theoretical probability
AHMET ÇAĞDAŞ GİRİT	Male 19 Turkey	Ratio Of Surface Areas For n Identical Polygons And A Line Istercesting With Them
Mathilde HAMELIN	Female 17 France	Can we freeze a soap bubble ?
Zoé MORIN	Female 17 France	Can we freeze a soap bubble ?
Rémi DEFORGE	Male 17 France	Can we freeze a soap bubble ?
Aditya Kumar	Male 15 Ireland	A New Method of Solving the Bernoulli Quadrisection Problem
Aditya Joshi	Male 15 Ireland	A New Method of Solving the Bernoulli Quadrisection Problem

Angelos-Michail Chouvardas	Male 18 Greece	E-aimodotes/Information system and immediate notification of blood donation needs
Aleandro Kurtidhis	Male 17 Greece	E-aimodotes/Information system and immediate notification of blood donation needs
Sjoerd Joost Auke Versteegh	Male 18 Netherlands	Composer classification: neural networks and harmonic analyses
Nadezhda Komarova	Female 18 Slovenia	Reconstruction of the image space depicted in paintings
Panteleimon Kobakhidze	Male 18 Georgia	Air Ionizer Working Using Carbon Nanofibers
Ali Asgarov	Male 18 Georgia	Air Ionizer Working Using Carbon Nanofibers
Arvin Kiarmin Vilhelm Björkgren	Male 19 Sweden	A Comparative Analysis Between Tomosynthesis and Conventional X-ray Modalities in Mammography
Nikita Arskiyi	Male 16 Ukraine	Number, Sum and Product of Divisors of Positive Integer
Radostin Lozanov Cholakov	Male 16 Bulgaria	The GatedTabTransformer. An Attention-Based Deep Learning Architecture For Tabular Modeling.
Anastasija Paškeviča	Female 19 Latvia	Filter-electrolyzer as an effective device for disposing of microplastics in wastewater
Ērika Plopa	Female 19 Latvia	Filter-electrolyzer as an effective device for disposing of microplastics in wastewater

Vanessa Guthier	Female 19 Germany	A solution for the enigma of gamma rays: Star clusters creating gamma sources
BERRA ÖKMEN	Female 17 Turkey	Quantum Dot Doped Boron Source Hydrogen Fuel Cell
BATUHAN BOSTAN	Male 16 Turkey	Quantum Dot Doped Boron Source Hydrogen Fuel Cell
LİDER ÖNGEN	Male 17 Turkey	Quantum Dot Doped Boron Source Hydrogen Fuel Cell
Anouar-Elmehdi BOUHADJAR	Male 18 France	Bipolarity and instabilities in neuronal networks
Alexeï LOCHAKOV	Male 17 France	Bipolarity and instabilities in neuronal networks
Madeline MADDOCK	Female 18 France	Bipolarity and instabilities in neuronal networks
Bartłomiej Bychawski	Male 19 Poland	Some finite index subgroups of the braid group B_3
Pierre Ates	Male 17 Belgium	3D Calls : Make them come out of the screen
Jakub Gál	Male 19 Slovakia	Optimized CNN implemented on TPU camera on autonomous robot and open- source analogue neural network accelerator with a parallel pipeline
Kahan Petr	Male 19 Czech Republic	Preparation and characterization of spin polarized tips for tunneling microscopy

Alfrēds Saročinskis	Male 18 Latvia	New conjectures of primes distribution in natural numbers sequence
Petr Gabuniia	Male 17 Latvia	New conjectures of primes distribution in natural numbers sequence