

Muhammed Emir Akat Résumé

Academics and Research

-Conducted the independent research “Using Chlorella Vulgaris Algae to Prevent and Heal Radiation Damage” in Dicle University Biochemistry Laboratory. Project mentor: Murat Yavuz. The project was conducted with Team Voltage.

-American Mathematics Olympiad: Bronze Medal. Ranked 9th in my school and 12th country, ranked 5th Bronze in the entire world.

-Waterloo University Canadian Senior Mathematics Contest: Scored 54 over 60. Was awarded with Certificate of Distinction.

-Conrad Challenge: As Untraditional Traditions team, we have advanced to round 2.

-Conducted the independent research “Review Effects of Postnatal Care in Epigenetic Structure of Rodents.” Project mentor: Alaettin Kaya from Dicle University. Research partner: Siyar Ozmen.

-Conducted the independent research “Simple Logistic Growth Model of Bald Ibis Population in Birecik, Turkey.” Project mentor: Ahmet Kılıc. Finalized the paper with the suggestions of Amanda Rodewald. Research partners: Azra Baysal, Bercem Sevinc.

-Conducted the research “Did Humans Adapted A New Facial Expression Since Their Separation from the Chimpanzees (Pan Troglodytes)?” under Horizon Academic Research Program. Project mentors: Matthias Siemer and Aliza Spruch-Feiner.

-Conducting the independent research “Turkish Generation Z’s Approach to the Istanbul Convention and its Annulment” after the announcement of the annulment of the conventions. Surveys were conducted traditionally and online. Traditional surveys took place in Diyarbakir Bahcesehir College High School. Online surveys were created by Google Surveys. Research partner: Lorin Tanircan. The paper will be reviewed by Irem Yildiz from Diyarbakir Bar Association.

-Conducting the independent research “Dated Phylogeny and biogeography of Silene sect. Atocion (Caryophyllaceae)” with Zeynep Toprak from Dicle University. Used data provided by Ntwai Moiloa from Gothenburg University. Used Geneious and BEAST to process the data and interpret the results. Currently in progress.

-Completed the “Ecology: Ecosystem Dynamics and Conservation” online course by Howard Hughes Medical Institute and American Museum of Natural History.

-Completed the “Evolution: A Course for Educators” online course by the American Museum of Natural History.

-Completed the “Art of the MOOC: Activism and Social Movements” online course by Duke University and Creative time.

-Completed the “Genes and Human Condition (From Behavior to Biotechnology)” online course by the University of Maryland and College Park.

-Completed the “Introduction to Genomic Technologies” online course by Johns Hopkins University.

-Got accepted to the Kadir Has University Molecular Biology and Genetics Engineering. Completed the program with A+ and Outstanding Success.

-Got accepted to the selective Horizon Academic Research Program. Studied the research methods in human emotions and psychological disorders with Professor Matthias Siemer. Completed the program with 93/100.

-Got accepted into the University of California San Diego Research Scholars: Biodiversity and Molecular Genetics. Awarded full scholarship. Will attend between Jan 10th, 2022 - March 17th, 2022.

Internship and Paid Work

-Amed City Council (Paid Work): Provided assistance to foreign visitors, translated documents.

-Nam Construction (Paid Work): Worked as accountant and translator.

-Ozel Batman Hastanesi (Private Hospital)(Internship): Worked in serology department. Worked in the urinology department. Worked with the microscope and diagnosed the urine samples. Organized and prepared the laboratory material.

-Dicle University Biology Laboratory (Internship): Participated in the preparation of growth medium, solutions and, learned how to use essential laboratory instruments such as centrifuge, pH meter, balance and, sterilizer.

-Policy for the People Internship Program: Recently accepted and an active member of operations team.

-Dicle University Chemistry Laboratory (Internship): Synthesizing organometallic catalysts to characterize. Later on, used those catalysts to investigate their activities in various reactions.

MUN, EYP, and Debate

-EYP Turkey Member.

-BK Model United Nations (BKMUN). Co-Chair of SPECPOL.

-Wuhan University International Model United Nations (WISMUN). Represented France in Security Council.

-Jakarta International Model United Nations (JMUN). Represented Ethiopia in UN-Habitat Committee.

-WFUNA International Model United Nations (WIMUN). Represented Uruguay in Human Rights Council.

-Aurora 26th National Selection Conference of EYP Turkey. Delegate of SEDE Committee.

-6th Digital EYP 101 Training of EYP Turkey.

-Fusion 2nd Digital Outreach Session of EYP Ireland. Delegate of FISC Committee.

-Robert College Remixopolis 2021. Member of Adidas Committee.

Sports

-Did karate for 2 years. Trainer: Mehmet Yazar.

Clubs

-Founder and president of the Wildlife Preservation Club: Working to raise awareness on wildlife preservation and bird population conservation. Currently working with the directorate of agriculture and forestry to provide data to international birding application eBird.

-Was the vice president and team organization leader of the Career Club: Organised educational seminars for high school students to have better understandings of possible future careers by hosting successful people. Was responsible for team organization and general check-ups.

-Organization leader of HeForShe Club: Working to raise awareness on gender inequality and integrate gender equality into social and cultural life. Responsible for event organizations and team planning.

-Co-founder of BetterForAll: Working with NGOs to raise awareness on social issues that they work on via seminars, interviews, workshops, week-long fairs.

-Current co-representative of FFF (Fridays for Future) Diyarbakir. Organized the first high school students' environmental strike of Diyarbakir.

-MUN Club member: Guiding younger students and preparing them for national and international MUN conferences.

-Philosophy and Coffee Club member.

-Film Production Club member.

-Peer Tutoring Club member.

-Sewing Club member.

Volunteerism

-Class vice-chairperson for 4 years.

-Current member of TEMA (Turkish Foundation for Combating Soil Erosion): Organizing and participating in planting days to raise awareness about the increasing soil erosion. Translating documents and participating in online works.

-Current member of LOSEV (Foundation for Children with Leukemia): Worked with BetterForAll to organize a week-long fair to introduce LOSEV to a wider community. Also worked to raise awareness of leukemia and its patients.

-Current member of Amnesty International: Working on the translation of documents and other online works.

-Gaia Ekolojik Tibbi Aromatik Bitki Bahcesi: Worked on the preservation of 2000-year-old seeds gathered by local farmers to increase the number of natural seeds and distributed them to farmers in need.

-Current member of Robotel: An organization that provides prosthetics produced with 3D printers in personalized sizes and qualities to individuals in need. Working on the translation of documents and other online work.

-Made face shields with other students by using the CNC machine at our school for the local health service workers during the COVID-19 pandemic.

-Active Volunteer of Atesbocegi: Atesbocegi is an organization founded by university students and managed by high school and college students who work on street animals, environmental and social problems.

-Played the Polonius character from Shakespeare's Hamlet in a school play. The play was staged in the Kurdish Language.

-Working with Dicle University to sound record books for students with hearing loss. Participated as the leader of the organization. Sound recording Turkey's biggest biology term dictionary. Edited participants' recordings and conveyed them to the headquarters.

-Working with Diyarbakir Bar Association to create an emergency hotline app for LGBTQ+ youth in Turkey.

-Shot a documentary to further pronounce society's economic struggles due to Turkey's financial fluctuations.

-Shot a documentary to raise awareness on the rising numbers of unemployed teachers.

-Participated in Turk Hava Kurumu Model Aircraft Certificate Program.

-Participated in Turk Hava Kurumu Model Aircraft Improvement Certificate Program.

-Helped in the organization a workshop to introduce kids from Molla Gurani Primary School to STEM.

-Participated in a presentation about STEM and robotics for students with hard of hearing from Surkent Hard of Hearing Secondary School.

-Took part in a playday and a theatre for kids with leukemia with the students of Dicle University's theatre department and Handan Ekici.

- Took part fairs to raise funds to buy winter clothing for students in need from Esentepe Primary School.
- Gave online classes on zoom and taught mathematics, English, science, and Turkish language and literature to 8th-grade students for 6 weeks until they took the LGS exam at end of their preparation.
- Helped arrange a commerce space to sell handcrafted goods to buy footwear for students in need from Kocaalan Primary School.
- Helped the establishment of a library for the Karacadag Middle School by a book donation event
- Participated in the arrangement of a fundraiser to provide nourishment and a fridge for a family in need.

Publication

- “Review: Effects of Postnatal Care in the Epigenetic Structure of Rodents” published on HevselPress.
- “Using Chlorella Vulgaris to Prevent and Heal Radiation Damage” published on HevselPress.
- “Simple Logistic Growth Model of Bald Ibis Population in Birecik, Turkey” published on ResearchGate and HevselPress.

Robotics

- Was the project co-leader of the Team Voltage.
- First LEGO League Regional Tournament Championship Award.
- First LEGO League National Tournament International Tournament Ticket.
- First LEGO League Open International Turkey Gracious Professionalism 2nd Award.
- Wrote and directed Team Voltage’s three stage performances. One of them is published on YouTube.
- Mentored my school’s First Lego League Junior team.