



US Olympic & Paralympic Committee (USOPC) Data Challenge at UConn Sports Analytics Symposium (UCSAS) 2024

<https://statsds.org/events/ucsas2024/challenge.html>

For this data challenge, your goal is to identify the group of 5 athletes who will enable the Team USA Olympic Men's and Women's Artistic Gymnastics teams to optimize success in Paris 2024. You are tasked with developing an analytics model that can be used to identify and compare the expected medal count in the 8 medal events for men (team all-around, individual all-around, floor exercise, pommel horse, still rings, vault, parallel bars, and high bar) and 6 medal events for the women (team all-around, individual all-around, vault, uneven bars, balance beam, and floor exercise). See more at the webpage.

Data Data from major domestic and international gymnastics competitions from the seasons leading up to the 2020 Tokyo and 2024 Paris Olympics will be provided to entrants. Because the Code of Points scoring system is changed each Olympic cycle, data from the years (2017-2021) leading up to the 2020 Olympics, which actually took place in 2021, should be used as a separate data set from the data from competitions in the 2022 and 2023 seasons leading up to the 2024 Olympics.

The cleaned data is on GitHub, which is being actively updated. The last update of data will be the 2023 World Artistic Gymnastics Championships in Belgium, which ends in early October, 2023.

Entrants can use any additional data that they choose as long as that data is publicly available, but the additional data need to be included in the final submission for reproducibility

Eligibility The UCSAS 2024 Data Challenge is open to students only. You must be enrolled as a high school, undergraduate, or graduate student at some point during the 2023-24 academic year. Participants must register using their school email address.

Teams must enter one of the following two tracks: High School / Undergraduate Track; Graduate Track. To be eligible for the High School / Undergraduate ALL members of the team must consist of either high school and/or undergraduate students. Each team can have up to 3 members. If all team members are under 18, a faculty advisor needs to be the point of contact and register for the team.

Submission Students must submit a zip file containing: 1) A pdf report describing their results (max 3000 words); 2) A folder with documented code files and a README file describing what each file does. Note: Students can include other files including any app code or supporting documents. Any code or apps included need to be self-contained and able to run on reviewers' computers without modification.

Prizes Finalists (Six teams: three high school / undergraduate and three graduate) will be invited to present their work at UCSAS 2024 in Storrs, CT. Winning teams (one high school/undergraduate team and one graduate team) will receive some travel support and have their registration fees waived. The winning teams will receive a cash prize (UConn) and a plaque (UConn). Additionally, the winning teams will have the opportunity to showcase their work, with all travel, registrations, and expenses paid, at the 2024 USOPC Data, Analytics & Technology Summit in Colorado Springs, CO, providing them with increased exposure and potential opportunities for future collaborations. The runners-up will receive a certificate of achievement (UConn) and recognition for their outstanding performance in the Data Challenge.

Webinar Introduction Introduction workshop led by Elliot Schwartz (USOPC) and Jun Yan (UConn) is scheduled for 09/14/2023, 7-8 pm ET.

Important Dates

- Webinar introduction: September 14, 7–8 pm ET, 2023
- Participation registration deadline: November 1, 2023
- Submission deadline: January 15, 2024
- Finalists notified: February 15, 2024
- UCSAS 2024: April 12-13, 2024

