



# 2024 UConn Sports Analytics Symposium

UCSAS: April 12–13, 2024

<https://statds.org/events/ucsas2024/>

Revamped and rescheduled for Spring, the 5th UCSAS maintains its unique focus on students at various educational levels—from graduate and undergraduate to pre-college—who have an interest in sports analytics or data science more broadly. Organized by the Connecticut Statistical Data Science Lab, UCSAS aims to: 1) showcase sports analytics to students at an accessible level; 2) train students in data analytics with application to sports data; and 3) foster collaboration between academic programs and the sports industry.

## Keynote Presentations

- Nathan Chen, Statistics and Data Science Student, Yale University; Olympic, World, and US Champion in Figure Skating: “Designing the Optimal Figure Skating Program: Leveraging Data for a Competitive Edge”
- Kristin Morgan, Assistant Professor of Biomedical Engineering, University of Connecticut: “Interdisciplinary Data-Driven Approach to Improve Player Recovery and Performance”
- Esteban Navarro Garaiz, Technical Product Manager, Zelus Analytics “Baseball Analytics: Past, Present, and Beyond”

## Panel Discussion: Sport Analytics for Life: Many Different Paths

- Sean Ahmed, Director, Research and Development, Pittsburgh Pirates
- Luke Benz, PhD Student in Biostatistics, Harvard T.H. Chan School of Public Health
- Sean Fischer, Data Scientist, Cincinnati Reds
- Paul Sabin, Lecturer in Statistics and Data Science, The Wharton School
- Emily Wright, Data Scientist, Volleyball Canada Beach National Teams

**USOPC Data Challenge** Over 30 teams submitted solutions aimed at helping the USA Olympic Men’s and Women’s Artistic Gymnastics teams optimize their success for Paris 2024. Finalists, chosen by the data challenge judging committee, will be invited to present their work in the poster session, with travel support provided. The winners will be announced at the closing ceremony.

**Poster Session** We invite submissions from all, especially students (pre-college, undergraduate, or graduate) with interesting works on any topics of sports analytics. There is limited travel support from the NSF available. A student poster award, decided by the Student Poster Award Committee, will be presented at the closing ceremony. The poster session also serves as a networking mixer. Abstract submission deadline is 11:59 pm, Friday, March 15, 2024.

## Invited Sessions

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| Session 1: Athlete Welfare (Korey Stringer Institute) | Session 2: Olympic Sports                    |
| Session 3: Big Data Bowl Finalists                    | Session 4: Sports Analytics Beyond the Field |

**Training Workshops** Seven workshops at four levels are offered in four concurrent tracks in the afternoon on Friday, April 12, 2024. They provide training from jumpstart to advanced sports analytic skills.

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| Introduction to R (Fusheng Yang)                           | Introduction to Python (Charitarth Chugh)            |
| Basketball Analytics (Mathew Chandy)                       | Analysis of Formula 1 Data with Python (Abhram Gunt) |
| Web Scraping for Sports Data (Tyler Hinrichs)              | TensorFlow in Sports Analytics (Hari Patchigolla)    |
| Causal Inference in Sports Analytics (Dr. Kevin Cummiskey) |  |

**Registration** The symposium is open to anyone with an interest in sports analytics. Speakers and poster presenters get free registration. The deadline for in-person registration is 11:59 pm ET, April 8, 2024. Register at <https://statds.org/events/ucsas2024/registration.html> or scan the QR code on the top left corner.

**Sponsorship/Partnership** Depending on the contribution level, sponsors will be recognized through customary channels, including names of sub-events. We are also looking for partners for next year’s data challenge. Please contact Dr. Jun Yan ([jun.yan@uconn.edu](mailto:jun.yan@uconn.edu)).