

2019 New England Symposium on Statistics in Sports

Breakfast and Registration: Foyer area

8:00am – 9:15am: Coffee, tea, pastries

Welcome Address

9:15am – 9:30am: Mark Glickman and Scott Evans

Morning Session: Lecture Hall C - Featured talks

- 9:30am – 10:00am: Barry Nalebuff, Yale University
“Measuring Competitive Balance Correctly (in Sports)”
- 10:00am – 10:30am: Richard Smith, University of North Carolina, Chapel Hill
“How Do Typical Runners’ Performances Vary with Age and Gender?”
- 10:30am – 11:00am: Ron Yurko, Carnegie Mellon University
“Going Deep: Models for Continuous-Time Within-Play Valuation of Game Outcomes in American Football with Tracking Data”

Break: Foyer area

11:00am – 11:30am: Coffee and tea

Late-morning Parallel Sessions

11:30am – 1:00pm: Lecture Halls C and D

Lecture Hall C - Novel Use of Tracking Data

- 11:30am – 12:00pm: Neil Johnson, ESPN Analytics
“Extracting Player Tracking Data from Video Using Non-Stationary Cameras and a Combination of Computer Vision Techniques”
- 12:00pm – 12:30pm: Fan Bu, Duke University
“SMOGS: Social Network Metrics of Game Success”
- 12:30pm – 1:00pm: Jacob Mortensen, Simon Fraser University
“Estimation of Player Load Metrics Using Broadcast-Derived Tracking Data”

Lecture Hall D - Innovations in Sports Applications

- 11:30am – 12:00pm: Katherine Evans, Toronto Raptors
“Treatment Effect Heterogeneity in MLB Bunting Strategies”
- 12:00pm – 12:30pm: Katy McKeough, Harvard University
“Plackett-Luce Modeling with Parametric Growth Curves for Predicting Career Trajectories”
- 12:30pm – 1:00pm: Brian Macdonald, ESPN Analytics
“Analyzing Player Performance in eSports”

Lunch break: Foyer area

1:00pm – 2:00pm: Sandwiches, beverages, snacks

Afternoon Parallel Sessions

2:00pm – 3:30pm: Lecture Halls C and D

Lecture Hall C - Unsupervised Analysis of Tracking Data

2:00pm – 2:30pm: Laurie Shaw, Harvard University

*“Classifying and Analyzing
Team Strategy in Professional Soccer Matches”*

2:30pm – 3:00pm: Dani Chu, Simon Fraser University

“Route Identification in the National Football League”

3:00pm – 3:30pm: Sam Gregory, Sportlogiq

“Unsupervised Run Type Detection”

Lecture Hall D - Evaluation of Players and Team Lineups

2:00pm – 2:30pm: Devan Becker, University of Western Ontario

*“Comparing NHL Players’ Shots and Goals by
Algorithmically Decomposing Shot Intensity Surfaces”*

2:30pm – 3:00pm: Nathan Sandholtz, Simon Fraser University

“Measuring Spatial Allocative Efficiency in Professional Basketball”

3:00pm – 3:30pm: Sarah Mallepalle, Carnegie Mellon University

*“A Naive Bayes Approach for NFL Passing Evaluation
Using Tracking Data Extracted from Images”*

Poster Session: Foyer area

3:30pm – 5:00pm: With snacks and beverages

Panel Discussion: Lecture Hall C

5:00pm – 6:30pm: *“The State of Soccer Analytics”*

Moderator: Seth Walder – ESPN

Panelist: David Eccles – ChyronHego

Panelist: Tyler Heaps – US Soccer

Panelist: William Spearman – Liverpool FC

Post-NESSIS Get-Together

7:00pm – 9:30pm: The Heights, Smith Campus Center, 10th Floor
1350 Massachusetts Ave., Cambridge, MA 02138
(between Dunster St. and Holyoke St.)

<https://commonsplaces.harvard.edu/theheights>

Appetizers provided; Cash bar only.

Conference participants will need to show ID at security desk to get access to the venue.