

2021 New England Symposium on Statistics in Sports

October 1, 2021 - Introduction

12:45pm – 1:00pm: Mark Glickman and Scott Evans - Welcome Address

October 1, 2021 - Analyses with Tracking and Broadcast Data

1:00pm – 1:30pm: Sam Gregory, Victoria University and Inter Miami CF
“Pace and Power: Removing Unconscious Bias from Soccer Broadcasts”

1:30pm – 2:00pm: Ethan Baron, University of Toronto
“Predictive Value of Off-Target Shots in Soccer”

2:00pm – 2:30pm: Craig Fernandes, University of Toronto
“A Markov Process Approach to Untangling the Relationship between Intention vs. Execution in Tennis”

October 8, 2021 - Causation, Bias and Transformations

1:00pm – 1:30pm: Sean Fischer, University of Pennsylvania
“Causal Effect of Playing Time in the NBA”

1:30pm – 2:00pm: Jonathan Che, Harvard University
“Athlete Rating in Multi-Competitor Games with Scored Outcomes via Monotone Transformations”

2:00pm – 2:30pm: Luke Benz, Harvard University; and Michael Lopez, NFL and Skidmore College
“Estimating the Change in Soccer? Home Advantage During the COVID-19 Pandemic”

October 8, 2021 - Probability Modeling and Decision-Making

3:30pm – 4:00pm: Nathan Sandholtz, Brigham Young University
“An Inverse Optimization Analysis of the Fourth Down Decision in Football”

4:00pm – 4:30pm: Chancellor Johnstone, Air Force Institute of Technology
“Which Teams Would Have Won the 2020 NCAA Men’s and Women’s Basketball Tournaments?”

4:30pm – 5:00pm: Brook Russell and Sydney Newman, Clemson University
“Developing Multivariate Extreme Value Methods to Explore NFL Prospect Data”

October 15, 2021 - Tactics in Soccer and Australian Football

9:00am – 9:30am: Jeremy Alexander, Victoria University
“Quantifying Congestion in Australian Rules Football”

9:30am – 10:00am: Jirka Poropudas, SportIQ
“Extended Model for Expected Threat in Soccer”

10:00am – 10:30am: Marius Oetting, Bielefeld University
*“A Copula-based Hidden Markov Model for
Classification of Tactics in Football”*

October 15, 2021 - Novel Methods in Soccer

1:00pm – 1:30pm: Daniel Daly-Grafstein, University of British Columbia
“Quantifying League-Independent Scoring Ability in Soccer”
1:30pm – 2:00pm: Devin Pleuler, Toronto FC
“Player Masks: Encoding Soccer Decision-Making Tendencies”
2:00pm – 2:30pm: Jackson Weaver, Harvard University
“The Statistics of Spin in Soccer”

October 22, 2021 - Panel Discussion

1:00pm – 2:30pm *“Sports Analytics Courses for the Next Generation of
Analysts and Researchers”*

Moderator: Zachary Binney – Oxford College, Emory University

Panelist: Mark Broadie – Columbia Business School

Panelist: John Draper – The Ohio State University

Panelist: Konstantinos Pelechrinis – University of Pittsburgh

Panelist: Felesia Stukes – Johnson C. Smith University

Panelist: Tim Swartz – Simon Fraser University