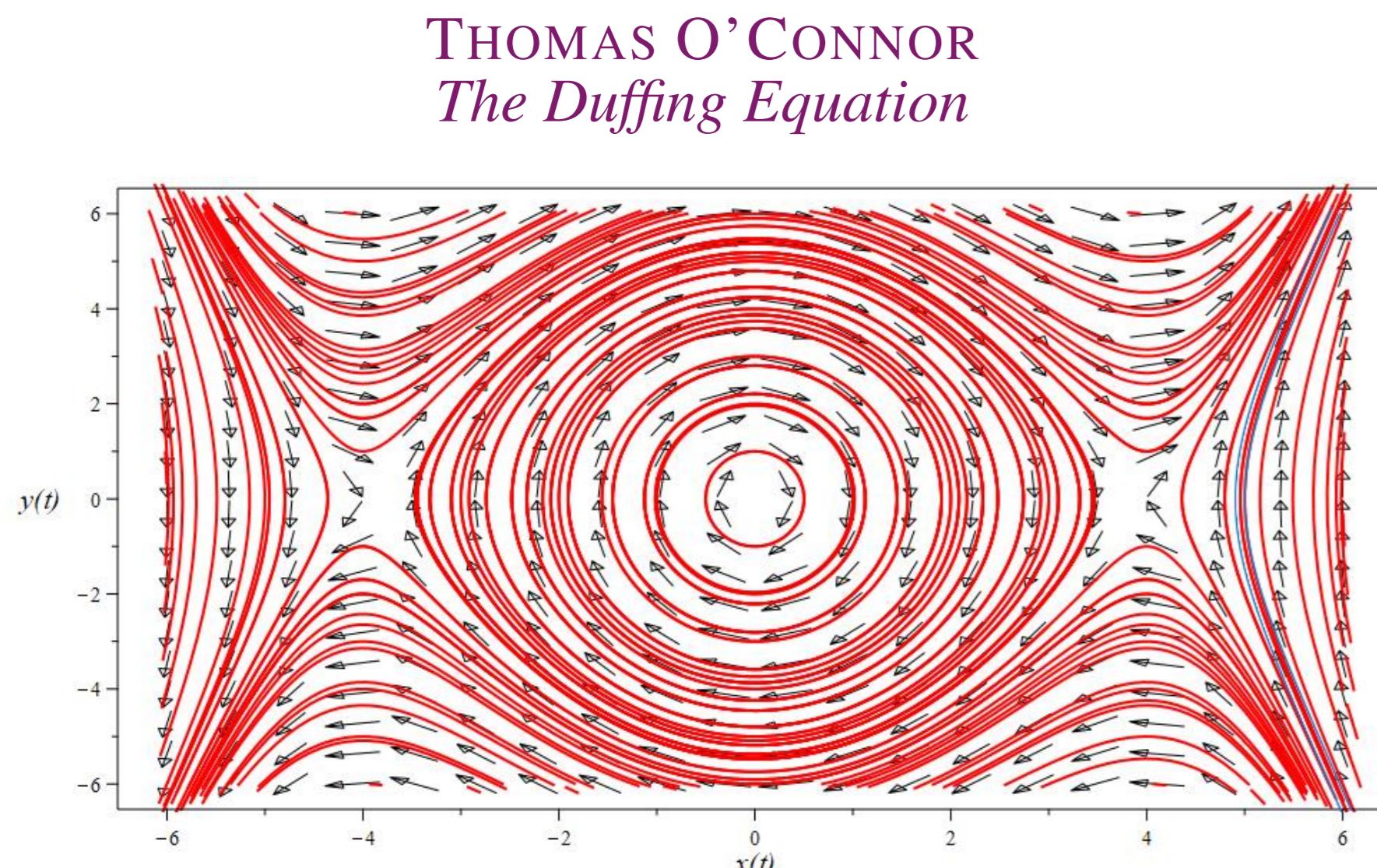


Undergraduate Research

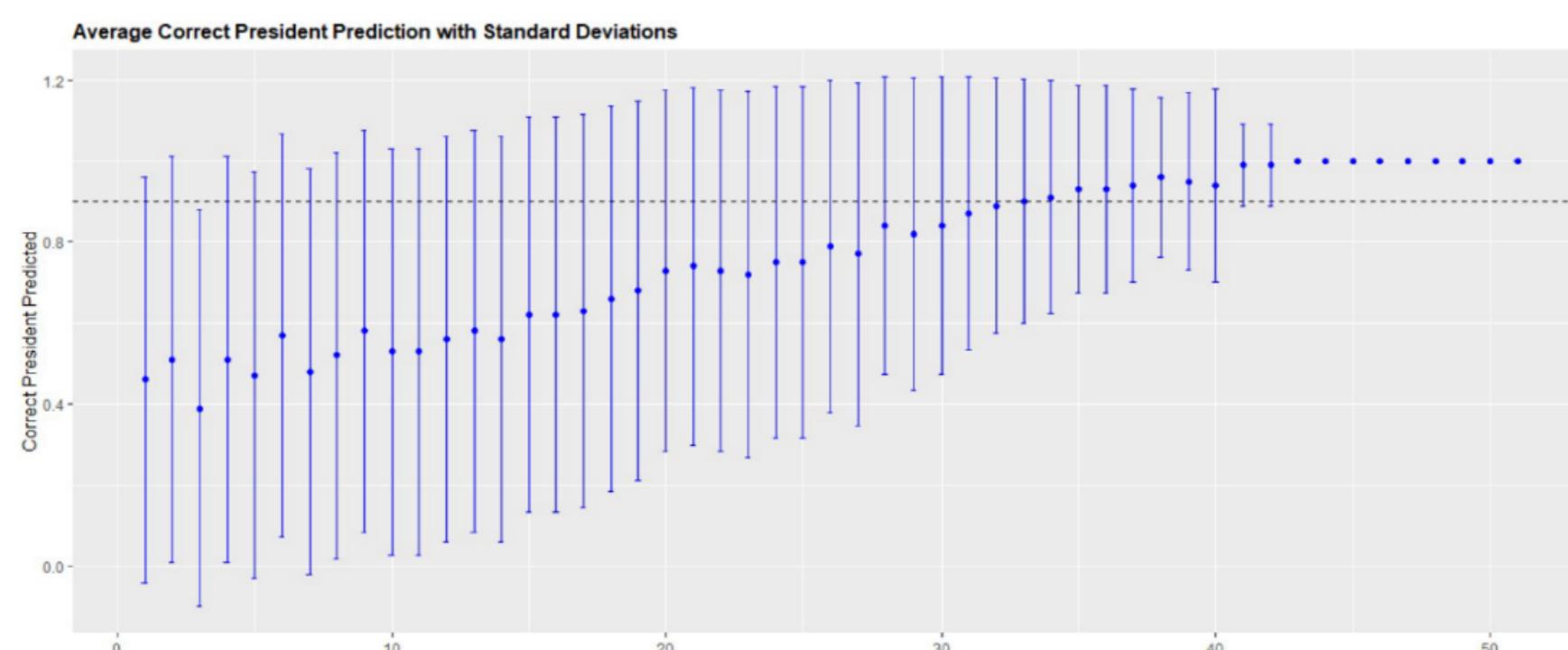
at the School of Mathematical and Statistical Sciences, University of Galway

This poster presents a small selection of the images created by undergraduate students in the School of Mathematical and Statistical Sciences, as part of their final year projects. They show the diversity of topics our students are researching, covering numerous areas of pure and applied mathematics, statistics, bioinformatics, and computing.



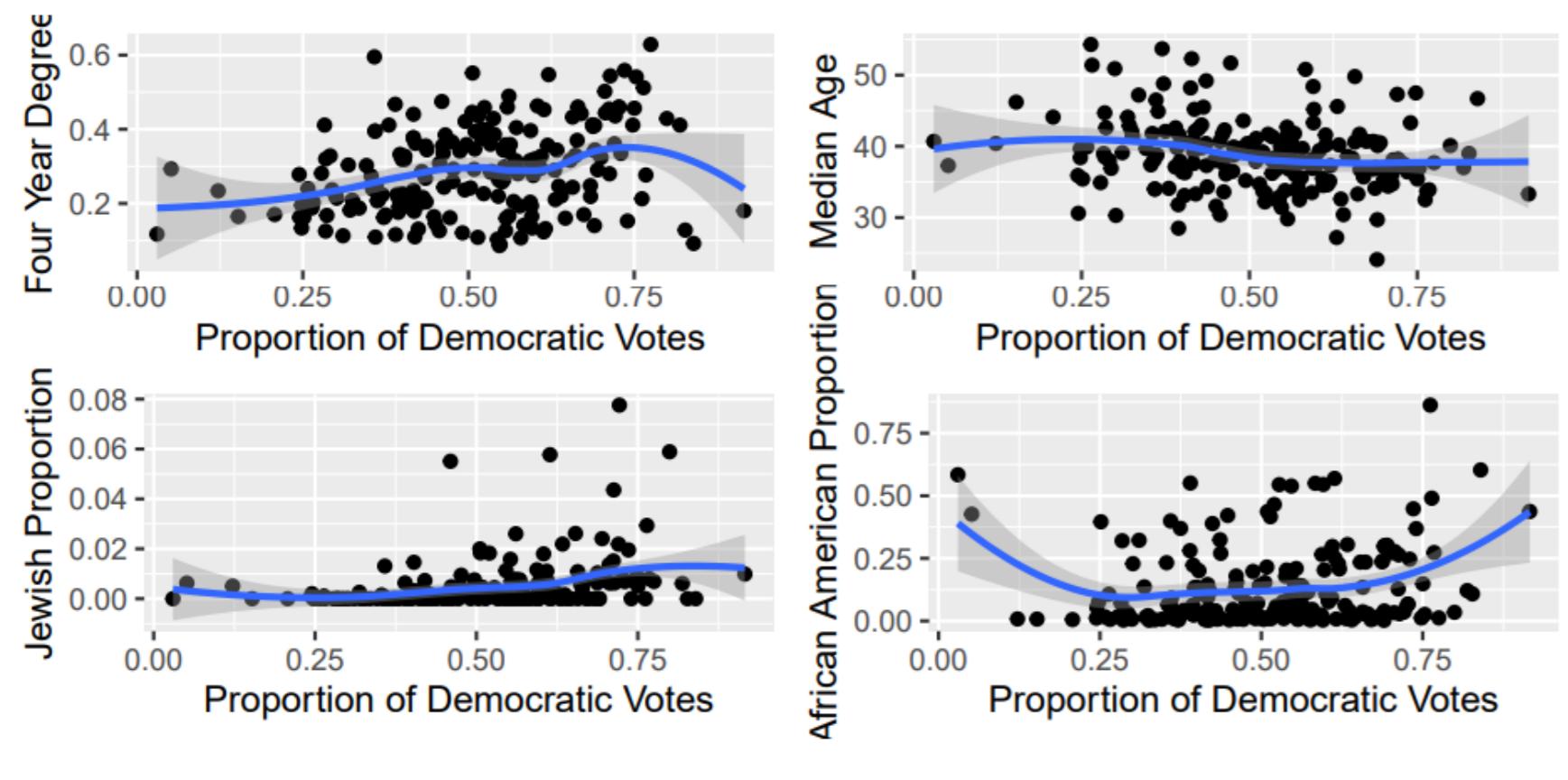
LISE WALL AND EMMA MEANEY

Predicting the US president election using network approaches



KATELYN McMAHON AND MATTHEW TALBOT

The Impact of County Demographics and Major Events on Votes for the Democratic Party



DARA KELLY AND CRONAN WARD
*Modelling Extremes in Finance and Investigating
Asymptotic Dependence*

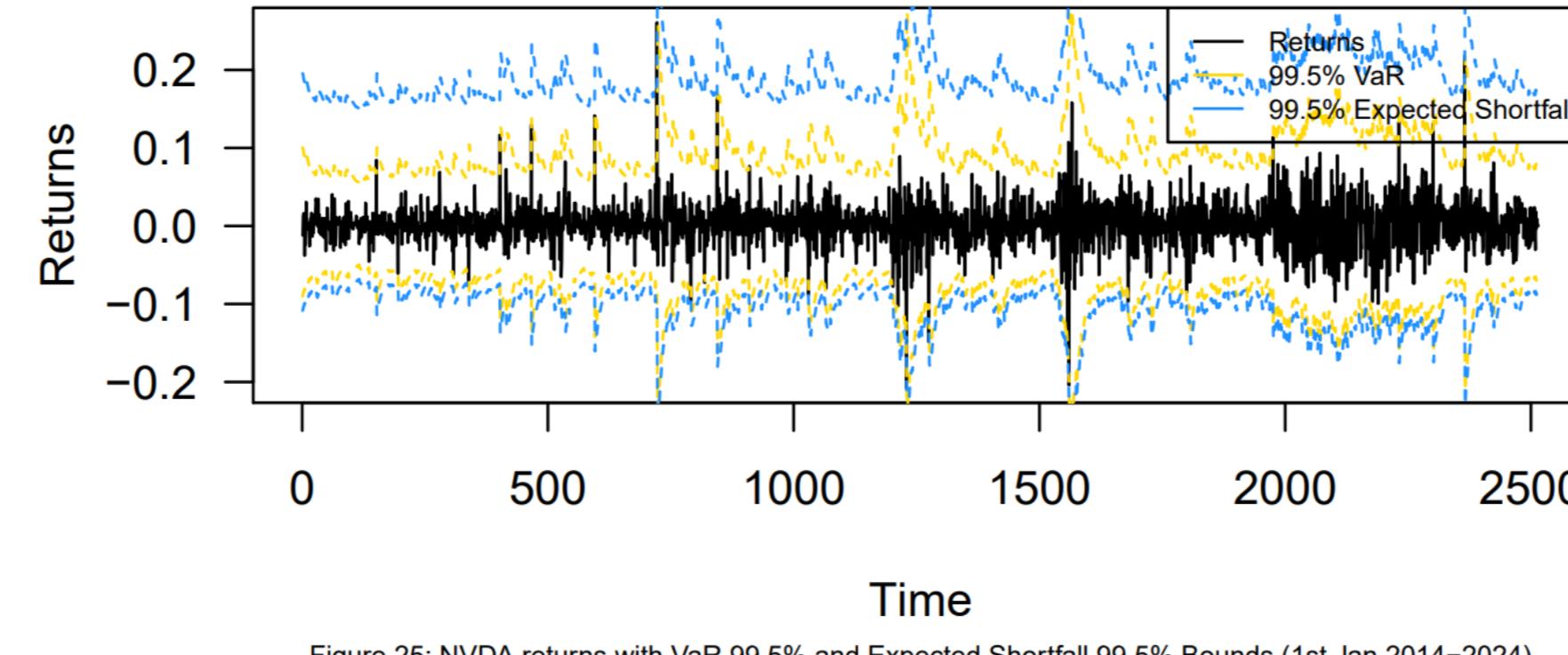
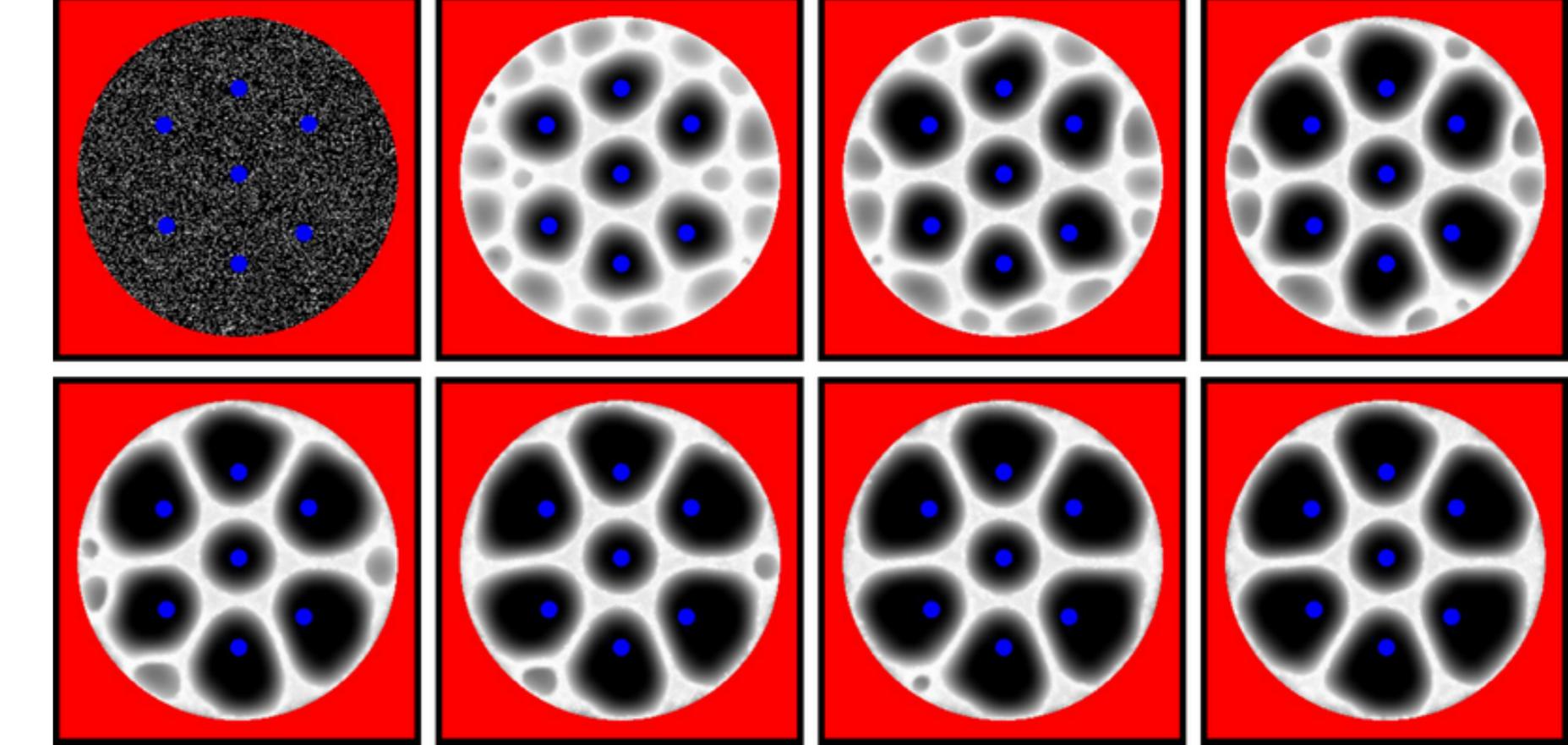
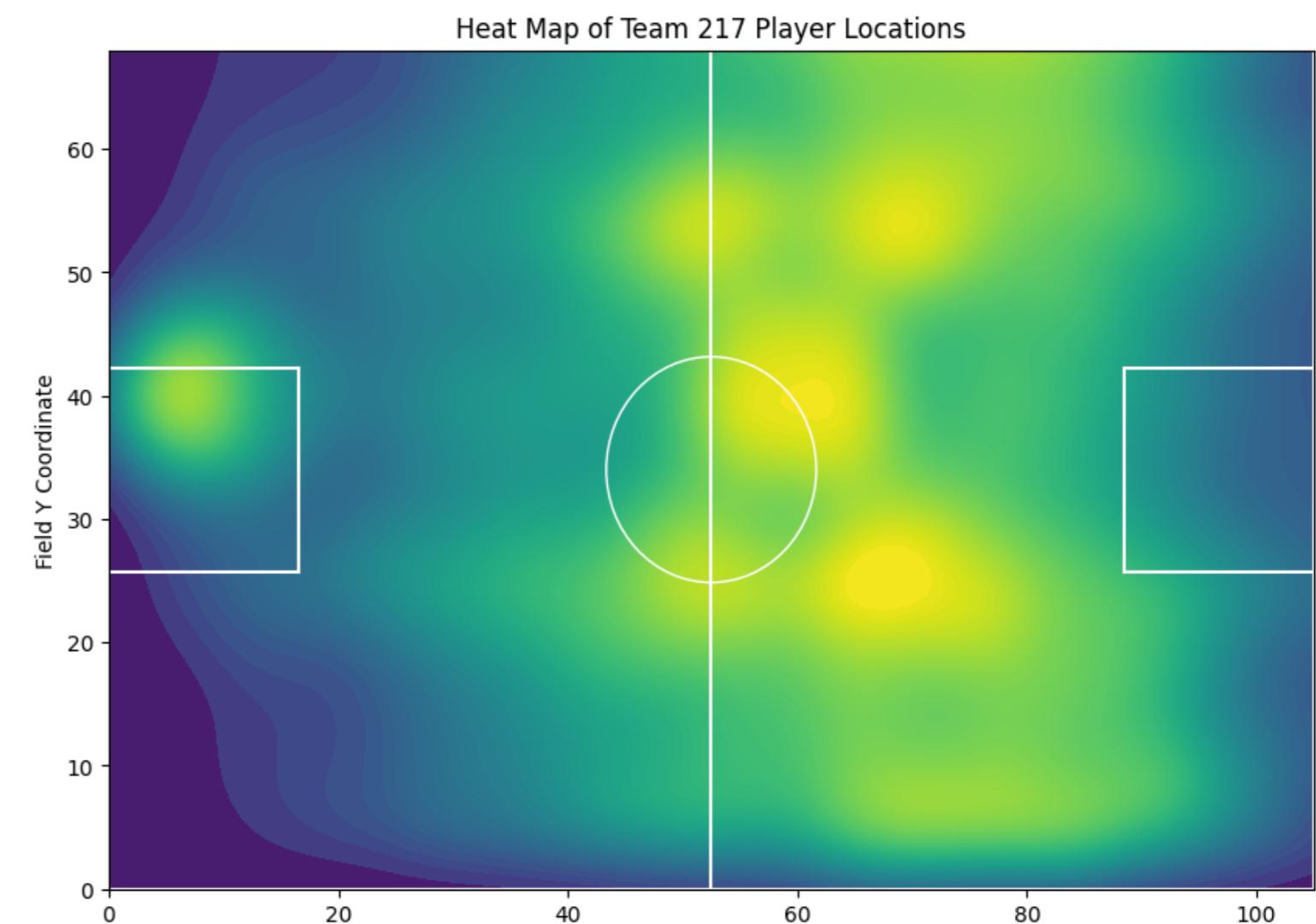


Figure 25: NVDA returns with VaR 99.5% and Expected Shortfall 99.5% Bounds (1st Jan 2014–2024)

SEAN JANSON AND DMYTRO LYUBKA
*Unveiling Emergent Patterns and Euclidean
Approximations using Physarum Polycephalum*

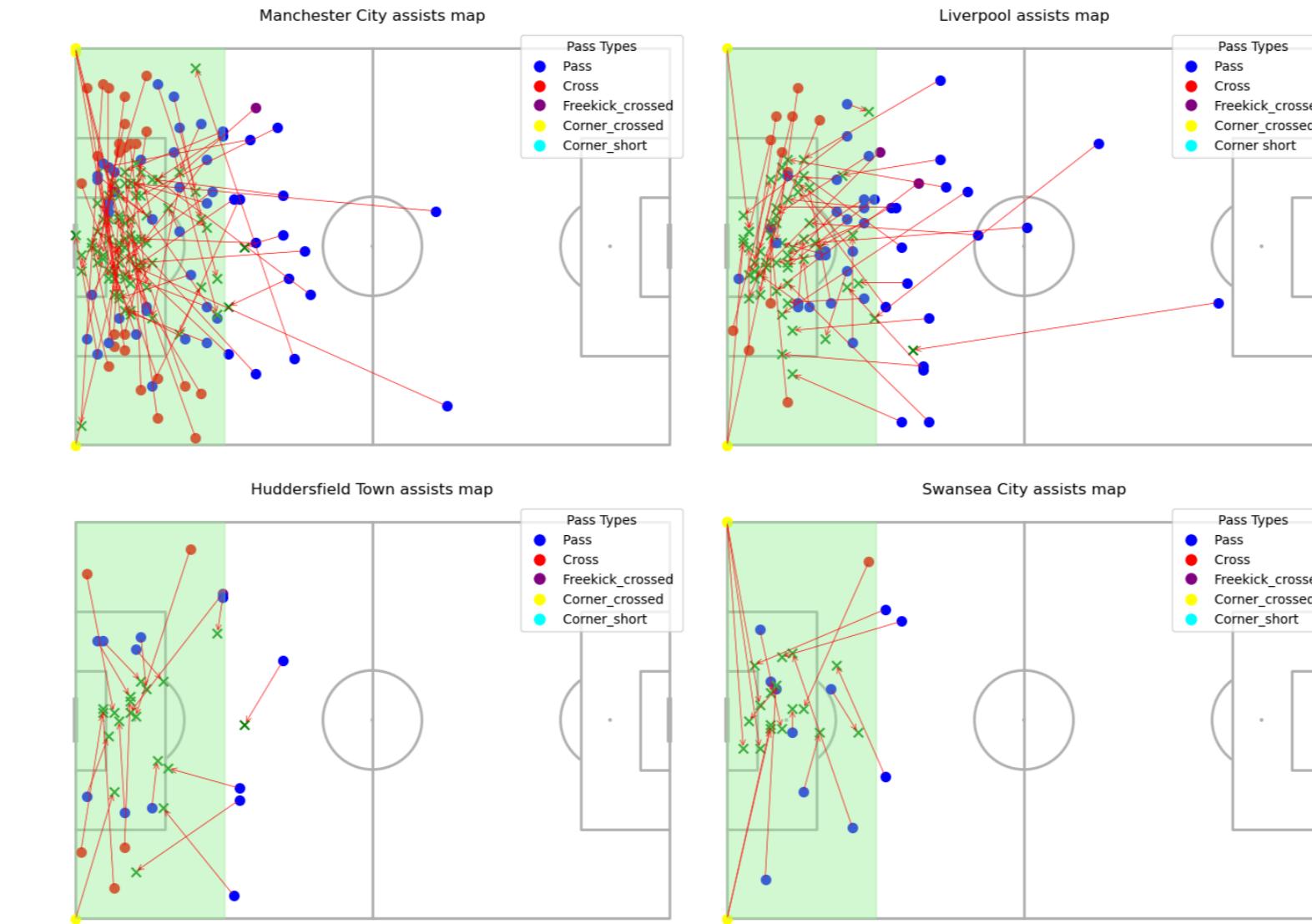


AILBHE KEANE, KAREN GILLOOLY AND PAULINA KRUNGLEVICIUTE *Analysis of Expected Goals in La Liga 2019/2020*



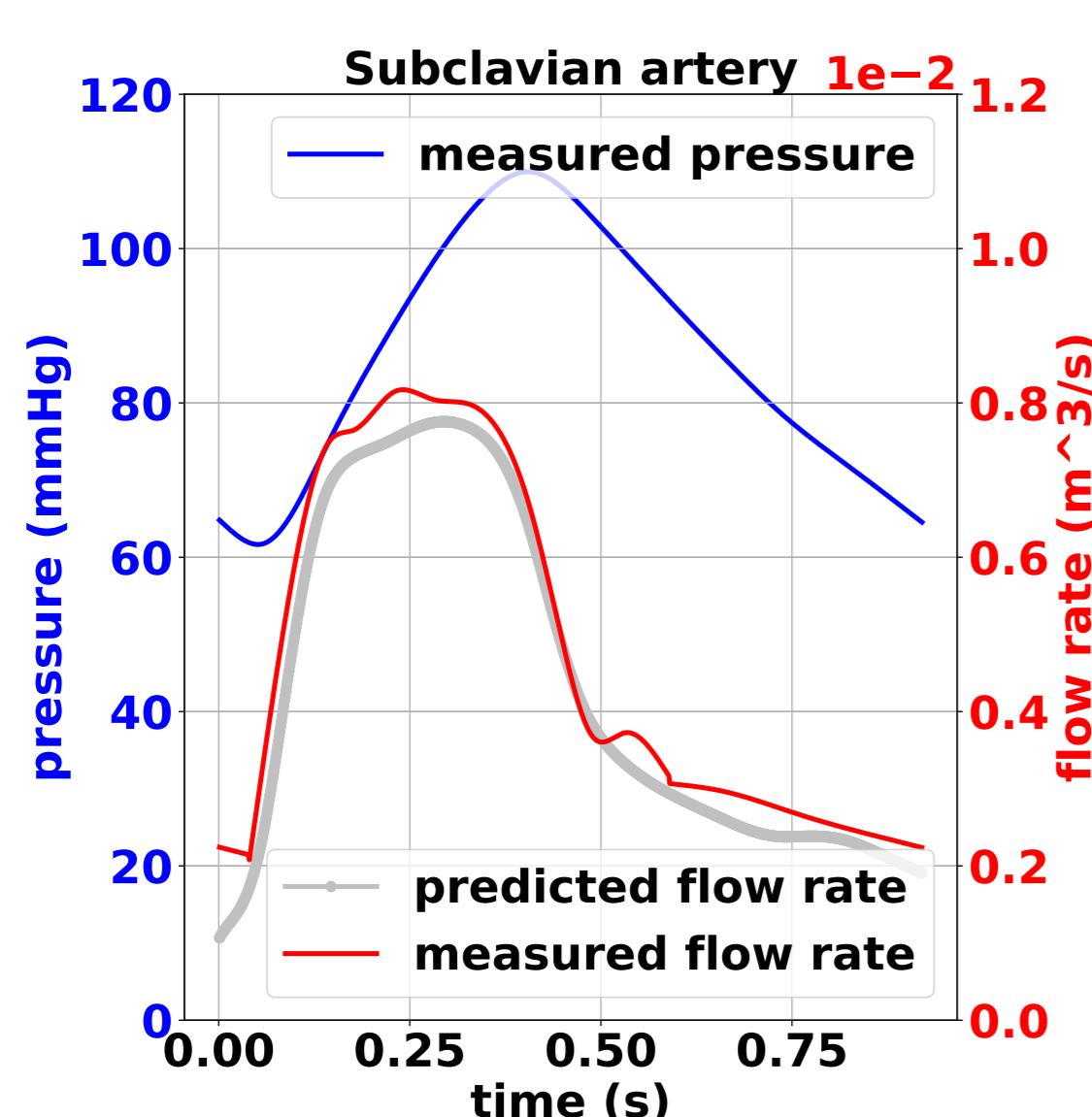
CIAN HUGHES AND CONAL O'MAHONY

investigating the evolution of tactics in soccer through data analysis



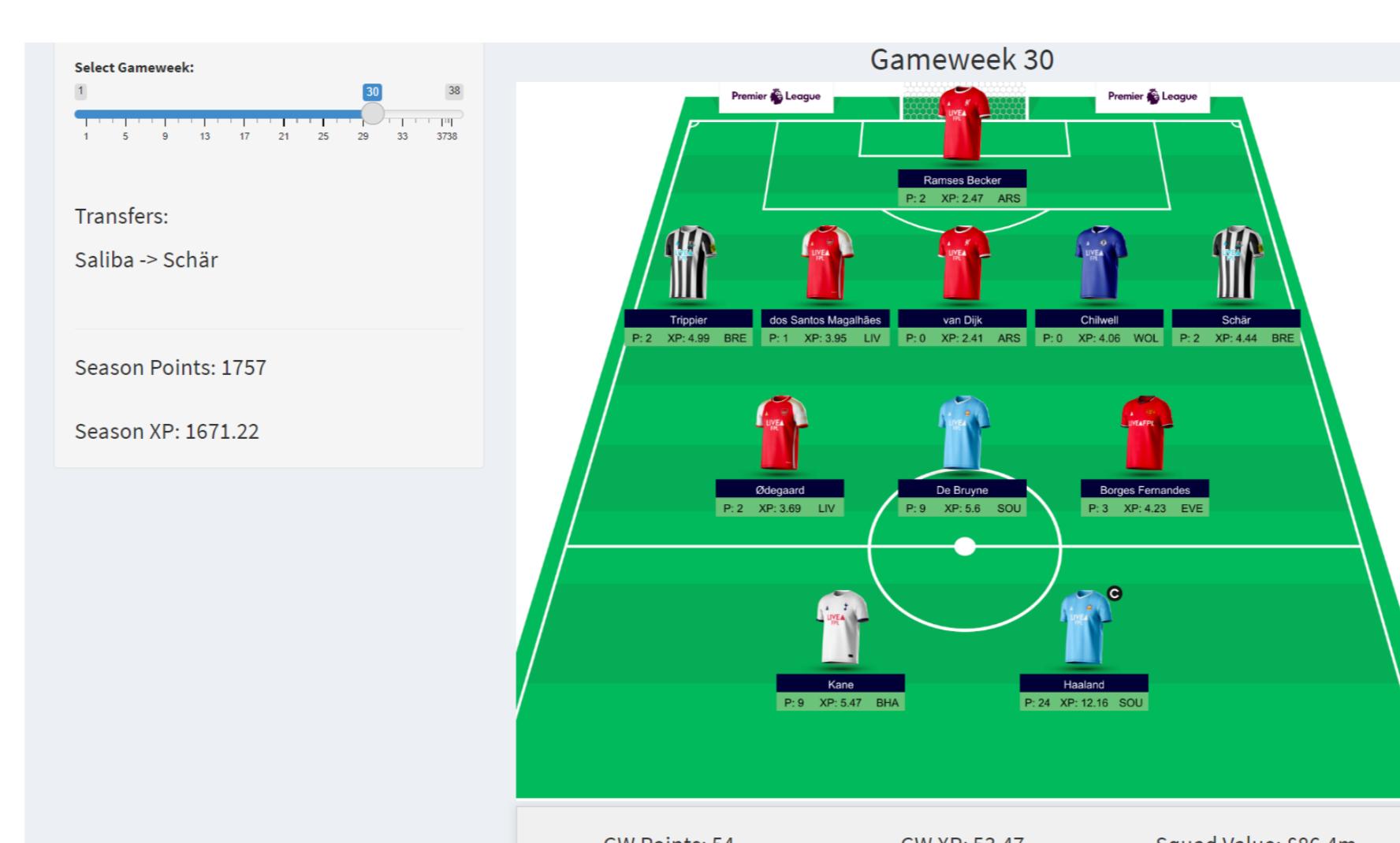
CIARÁN CAMPBELL

The Windkessel Model



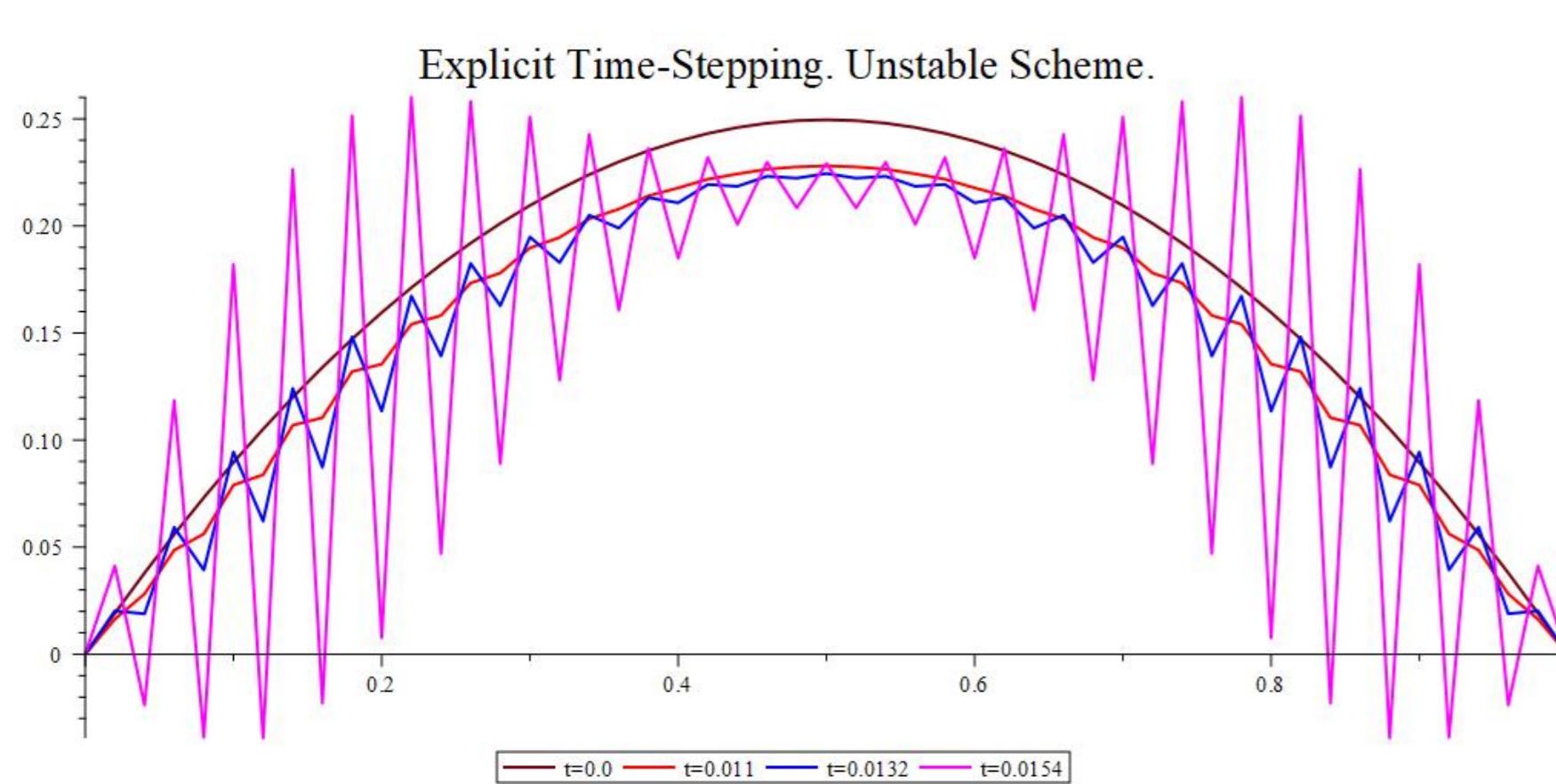
NIALL CAHALAN AND DAIRE ELBERSE

Statistical Modelling of Fantasy Premier League Data



ELI SHEEDY

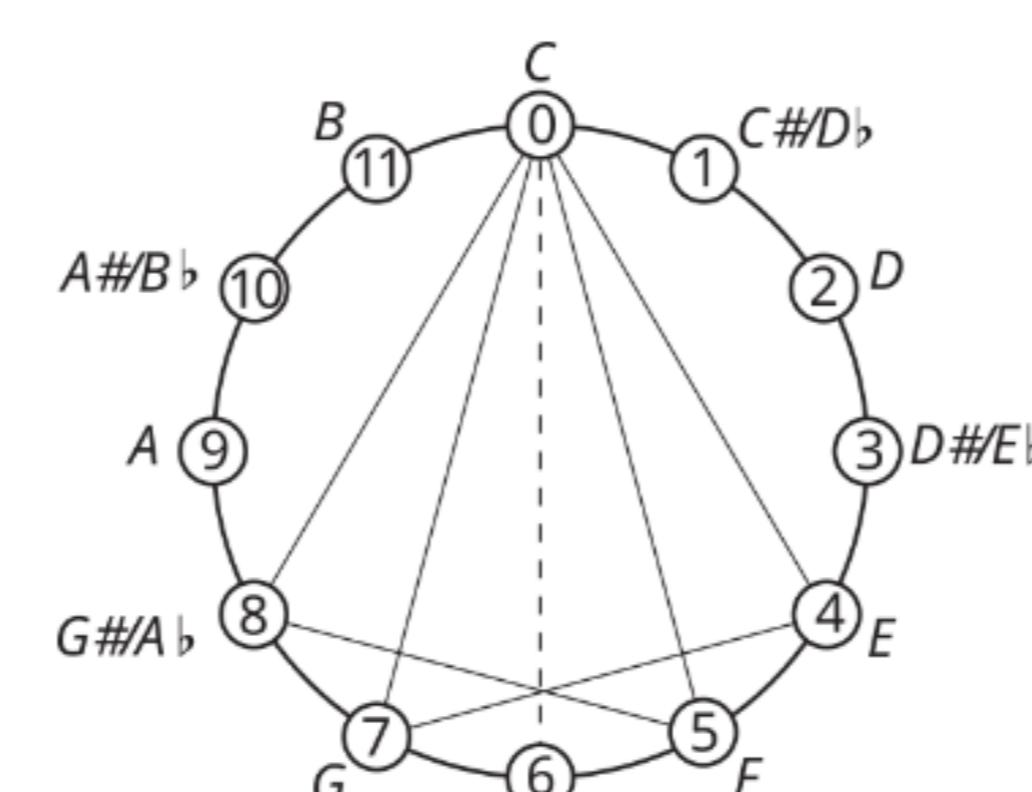
Finite Difference Methods for PDEs



JAMES NOHILLY

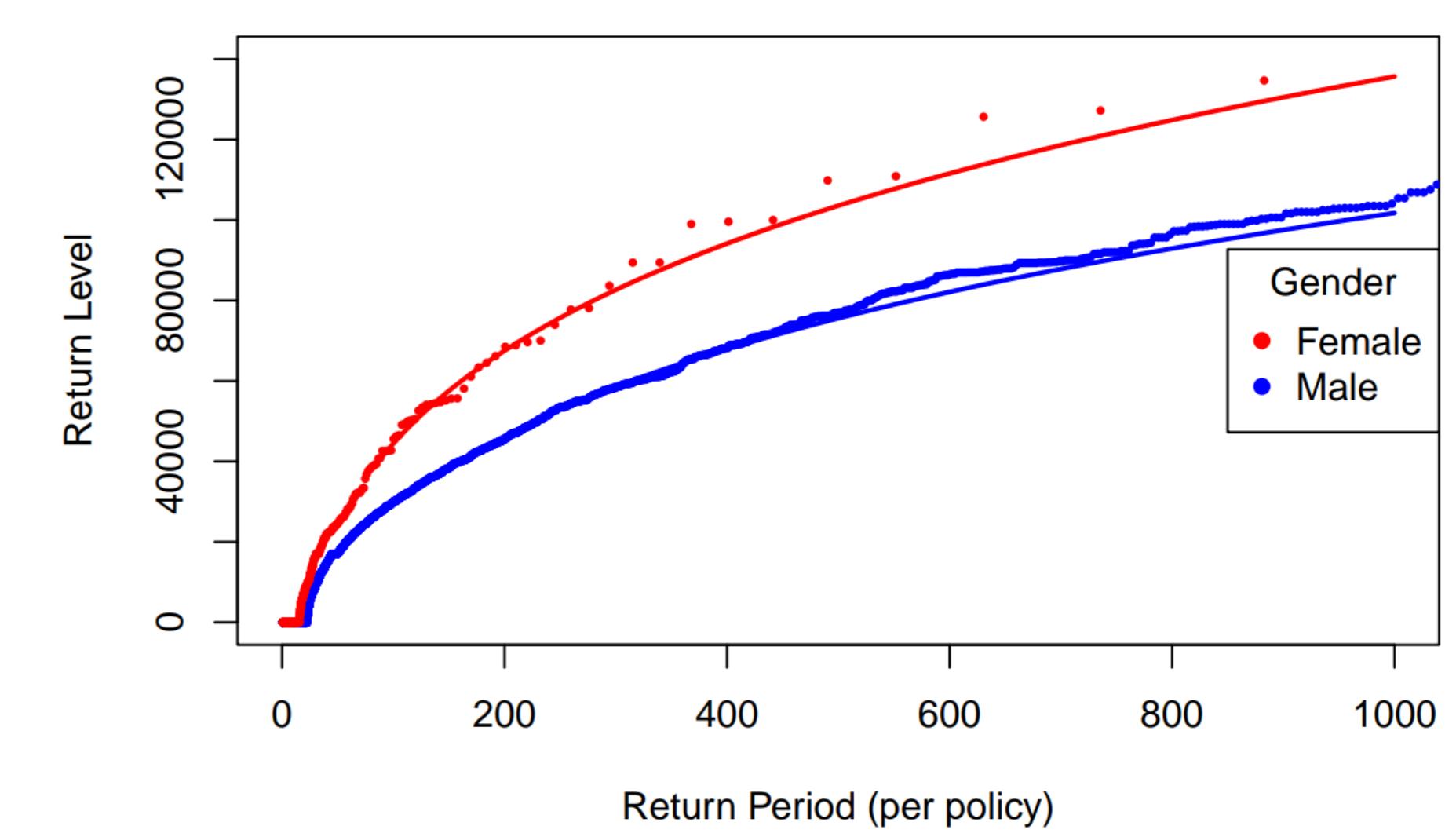
CAOIMHE DOHERTY MCCLAUGHLIN

Group Theoretic Analysis of Music



F#/.NET Core

CLAIRES NOLAN AND LEAH WYSE
Analysing Risk Factors in Automobile Insurance Policies



PAUL CASSIDY
*robability distribution for discrete time alternating
lazy quantum walk after 100 steps*

