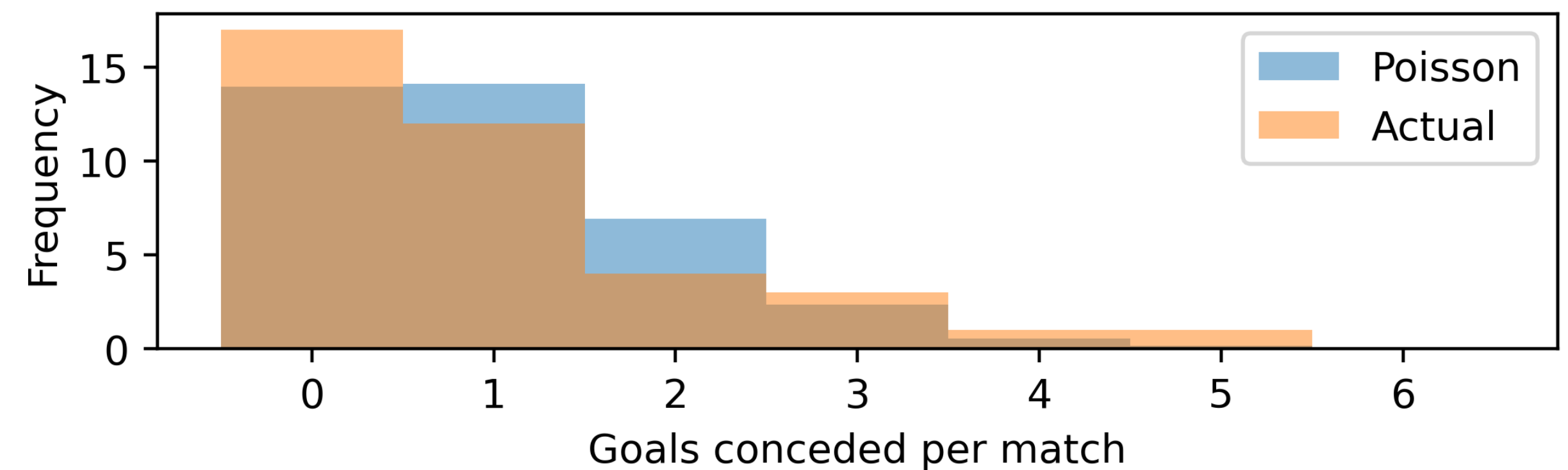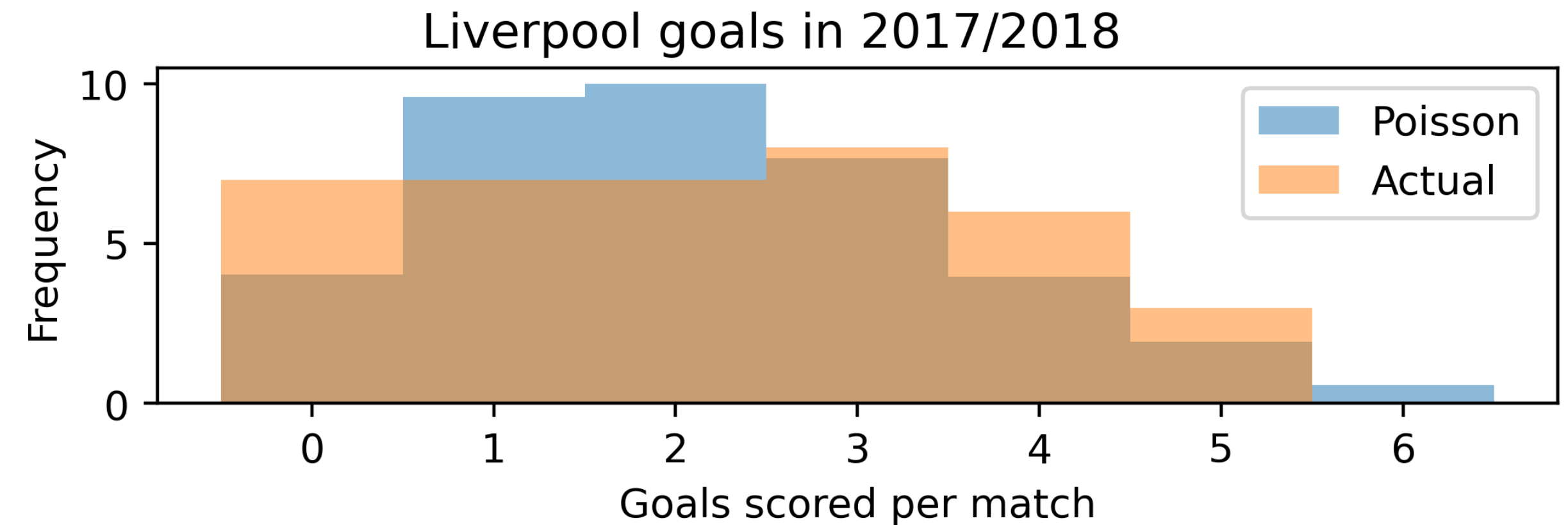# Analyzing Liverpool

- club performance

by Jesper Eriksson, John van Herk, Benjamin Meco, Viktor Åberg

Data collection and overview

- Wyscout data from 2017/2018 season

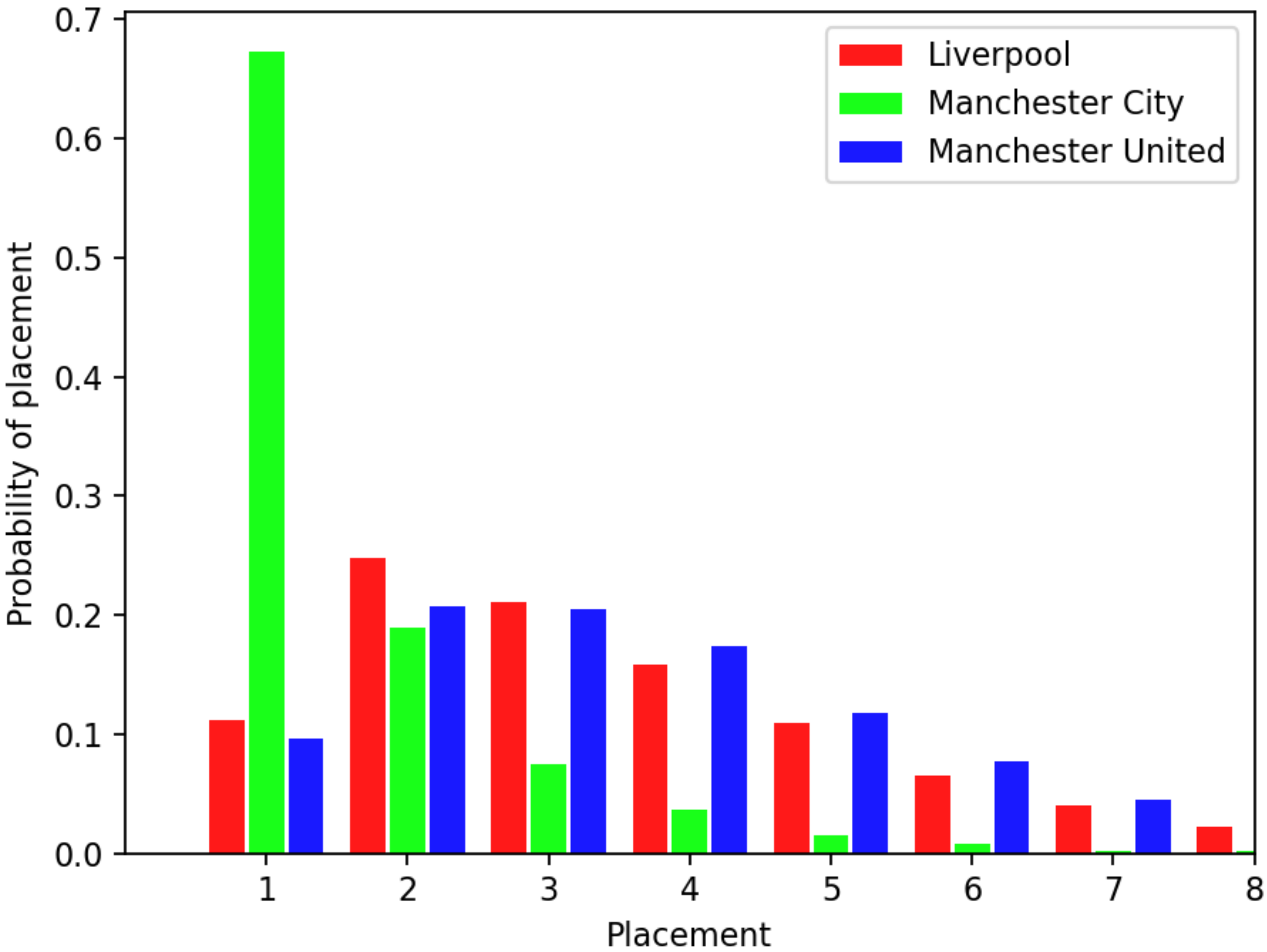- 380 games played, 38 per team, every team gets 2 Poisson distributions

Simulating the matches

- Every meetup is simulated

- Results get recorded, teams are ranked and every team gets a placement

- 10000 simulations are done

Comparing the top

	Man City	Man United	Liverpool
Points	100	81	75
Goals Scored	106	68	84
Goals Conceded	27	28	38

Potential improvements

- Offense, scoring more goals:
  Defense, conceding fewer goals:
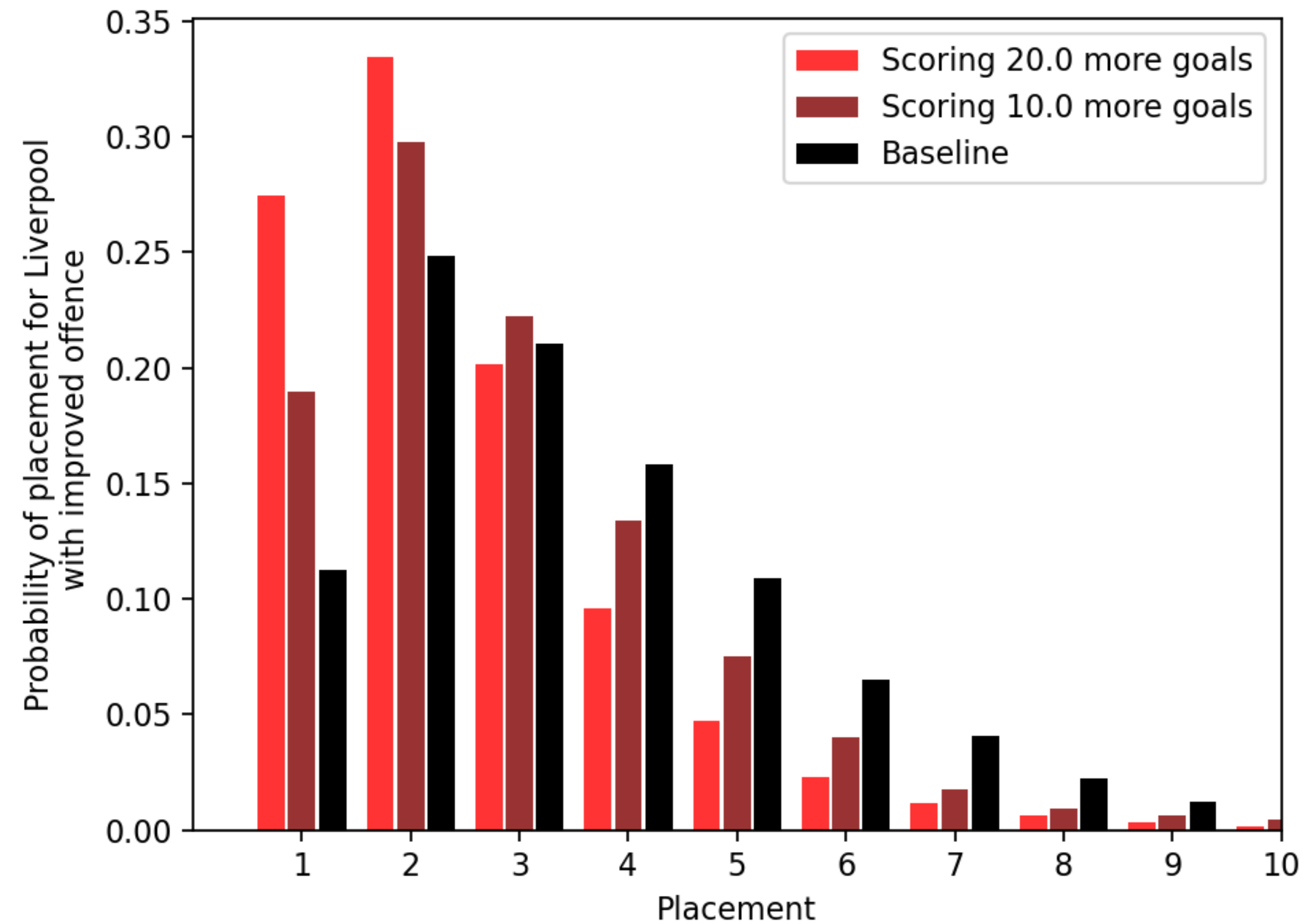
Comparing the top,
after improving defense

Baseline

Improved defense

Conclusion of the analysis

- The fitted Poisson distributions are close to the actual data

- Our simulations give a reasonable picture of the 2017/18 season

- The analysis predicts **defense** is the key factor

What happened in reality?

- Bought two excellent defensive players:
- Virgil van Dijk, defender
- Alisson, goalkeeper

- 2018/2019
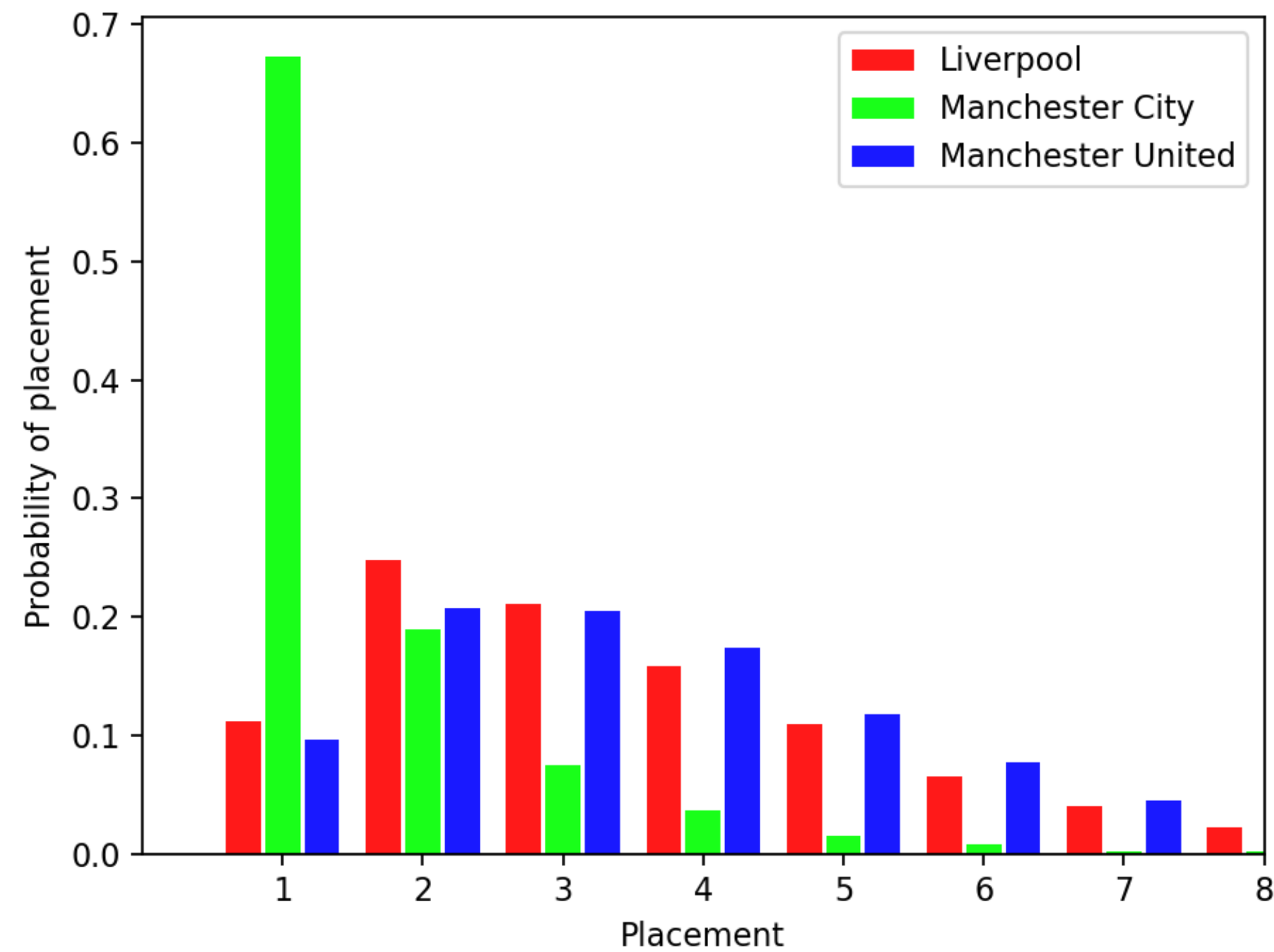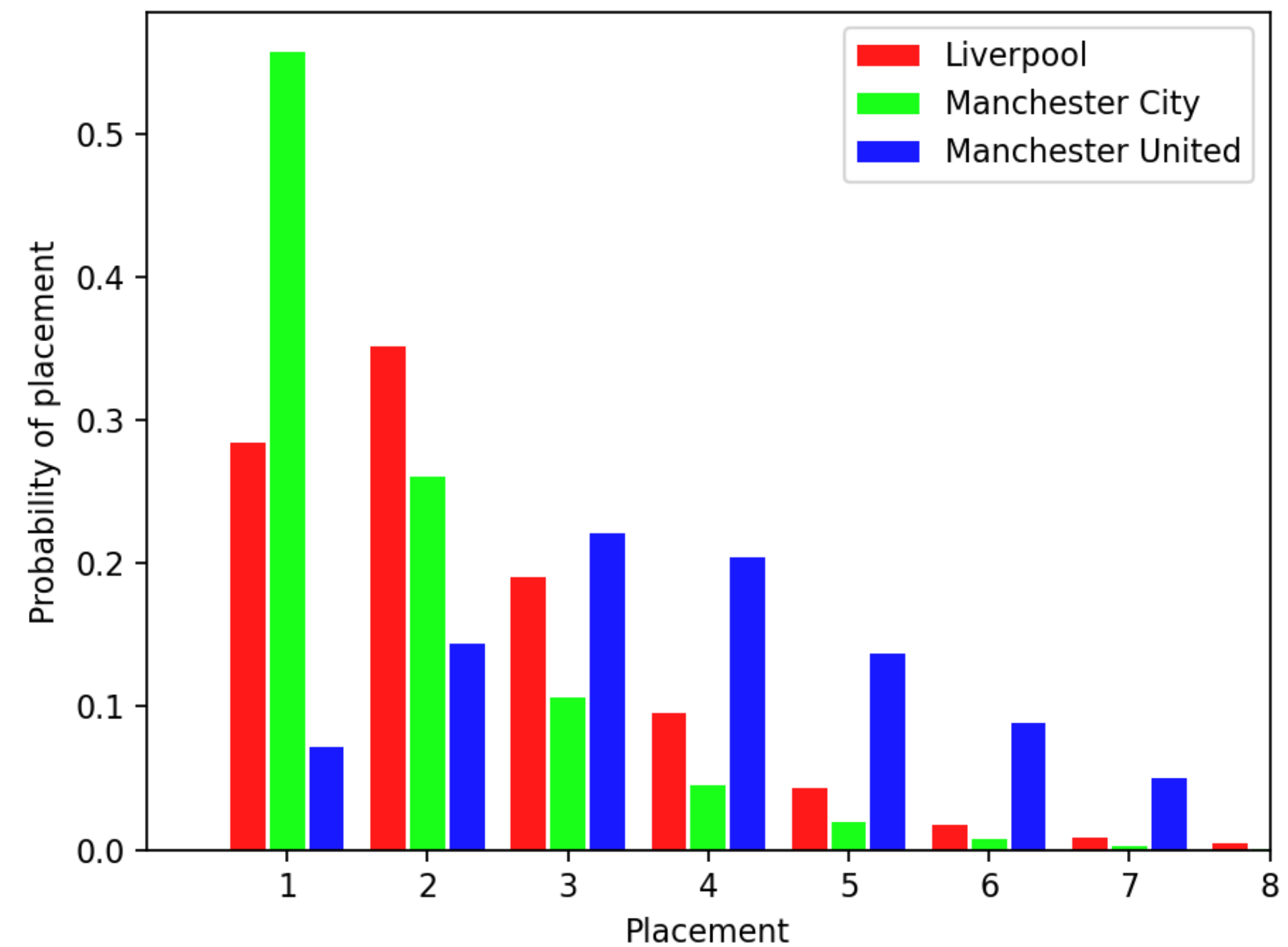
- 2019/2020

	Man City	Liverpool	Chelsea
Points	98	97	72
Goals Scored	95	89	63
Goals Conceded	23	22	39

	Liverpool	Man City	Man United
Points	99	81	66
Goals Scored	85	102	66
Goals Conceded	33	35	36

Thank you for listening!