Figures:

Figure 1: Proximity-based social network from 28 Sirtrack proximity loggers aggregated over the full study period (27 days). Circles depict individual rock hyraxes. Colours indicate individual assignment to communities based on a community-detection algorithm. Pie charts represent the proportion of social interactions a hyrax maintains with each community.

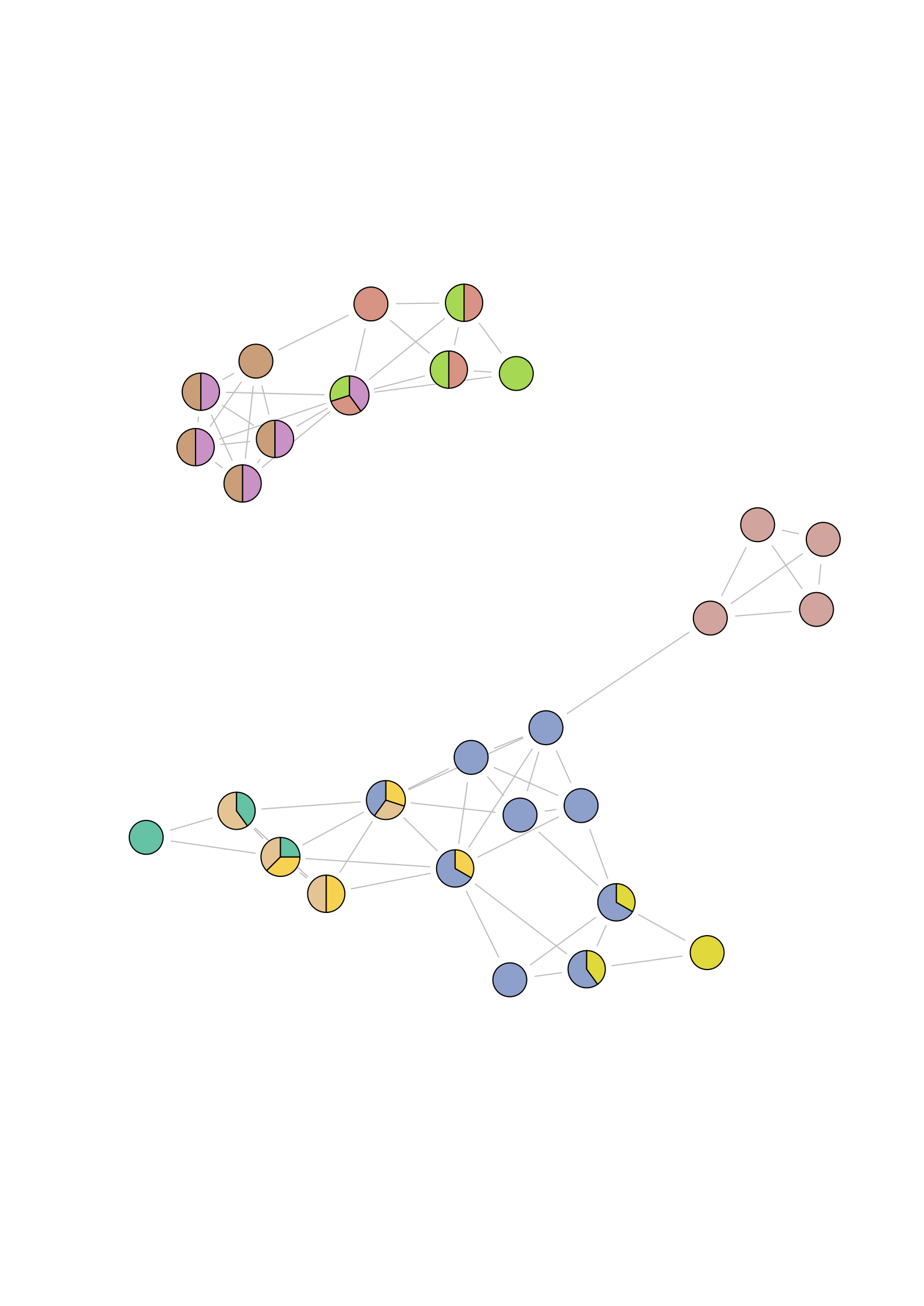


Figure 2: Correlation matrix between social networks built on different times of the day (night or day) and across social contexts (interactions longer or shorter than 25 minutes). '*': The permutation test is significant at the level of 0.05.

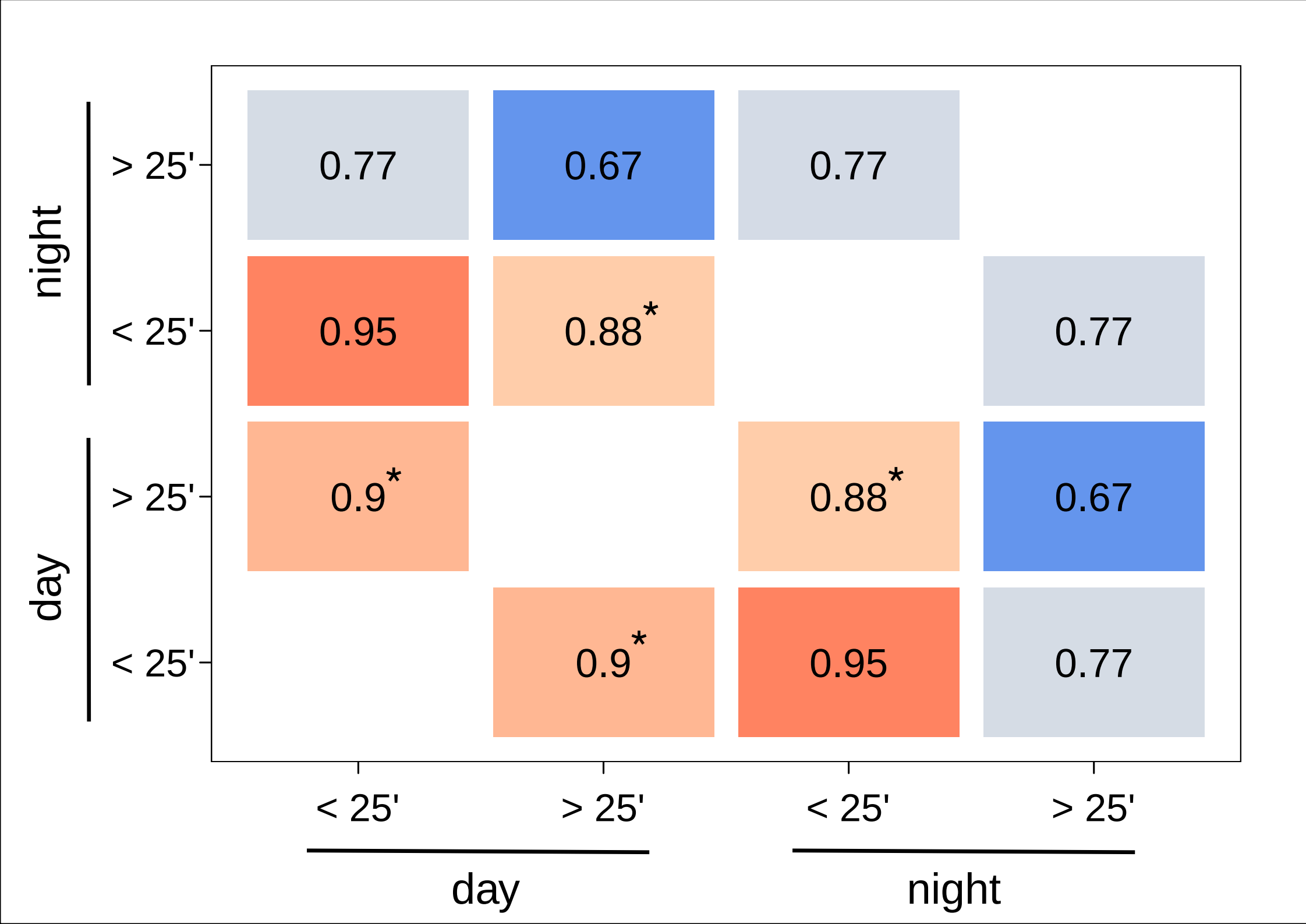

night
day
> 25'
< 25'
> 25'
< 25'
0.77
0.67
0.77
0.95
0.88*
0.77
0.9*
0.88*
0.67
0.9*
0.95
0.77
< 25'
> 25'
< 25'
> 25'
day
night

Figure 3: Mean individual network traits over time (left) and associated cumulated distributions (right) during the day (orange) and at night (blue). Significance level of day-night differences according to permutation-based tests: ‘ns’: non-significant; ‘***’: $p<0.001$.

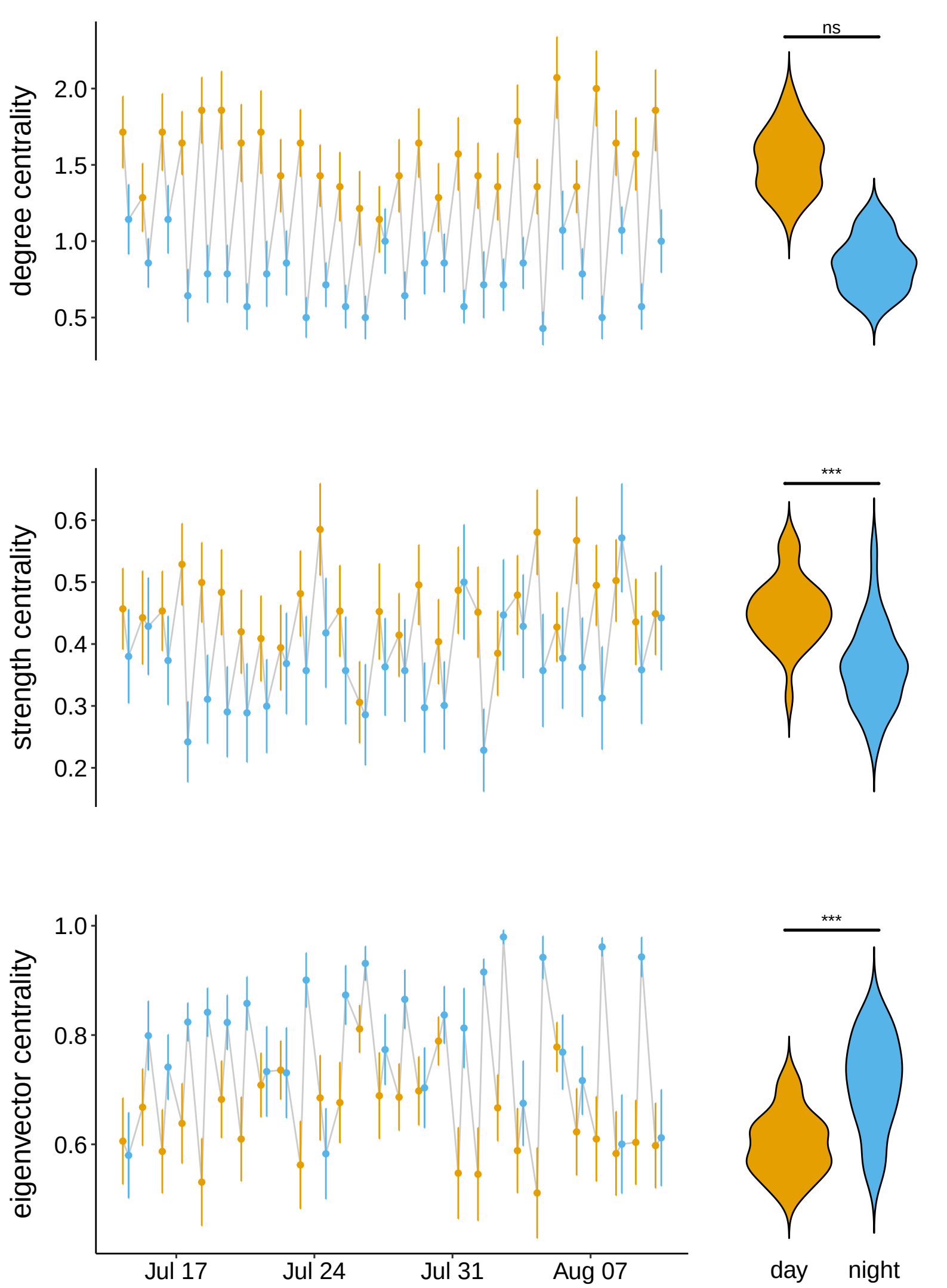

degree centrality
2.0
1.5
1.0
0.5
ns
strength centrality
0.6
0.5
0.4
0.3
0.2
***
eigenvector centrality
1.0
0.8
0.6
***
Jul 17
Jul 24
Jul 31
Aug 07
day
night

Figure 4: Mean group-level network traits and individual selectivity over time (left) and associated cumulative distributions (right) during the day (orange) and at night (blue). Significance level of day-night differences according to permutation-based tests: ‘ns’, non-significant; ‘***’, $p<0.001$.

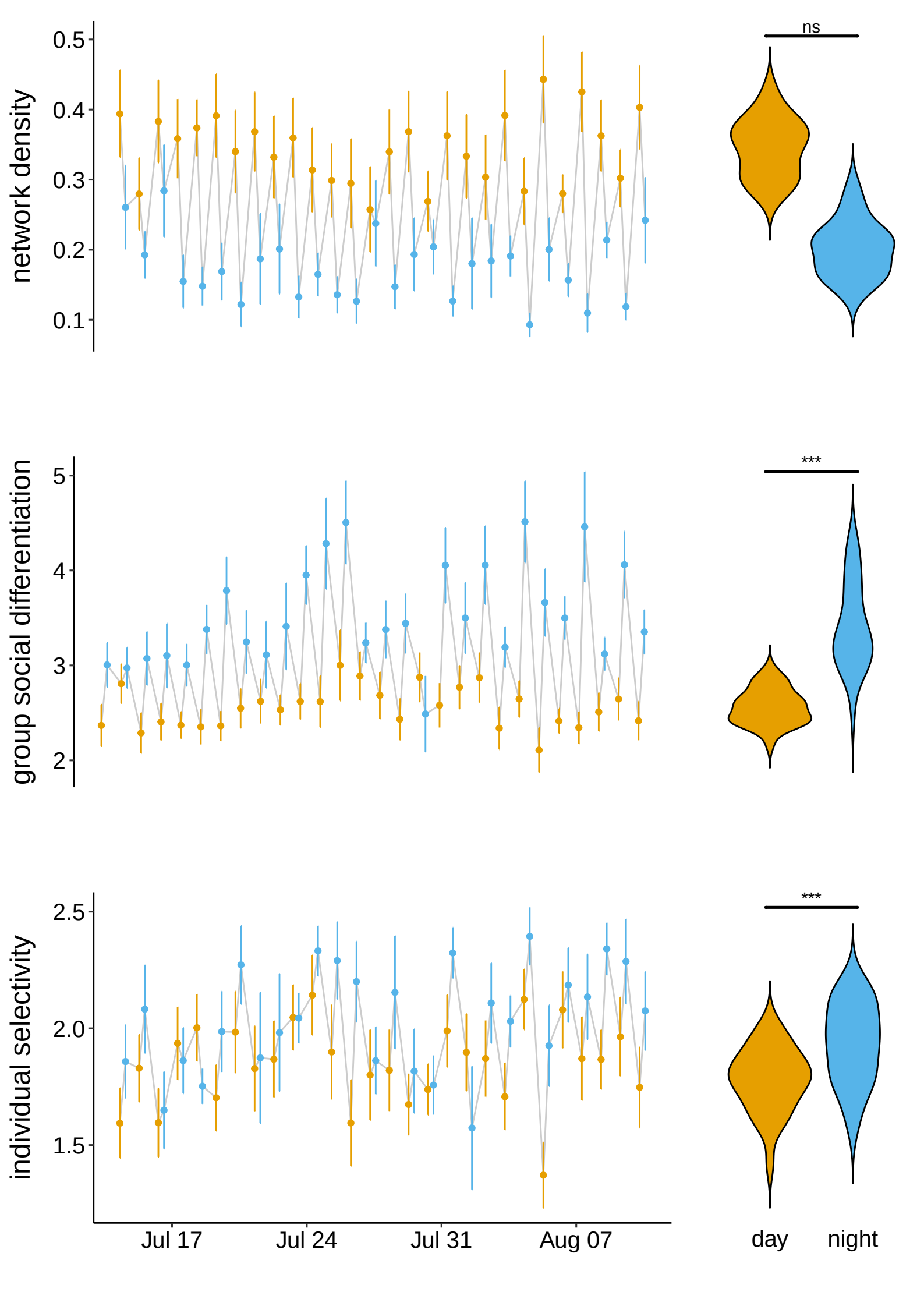
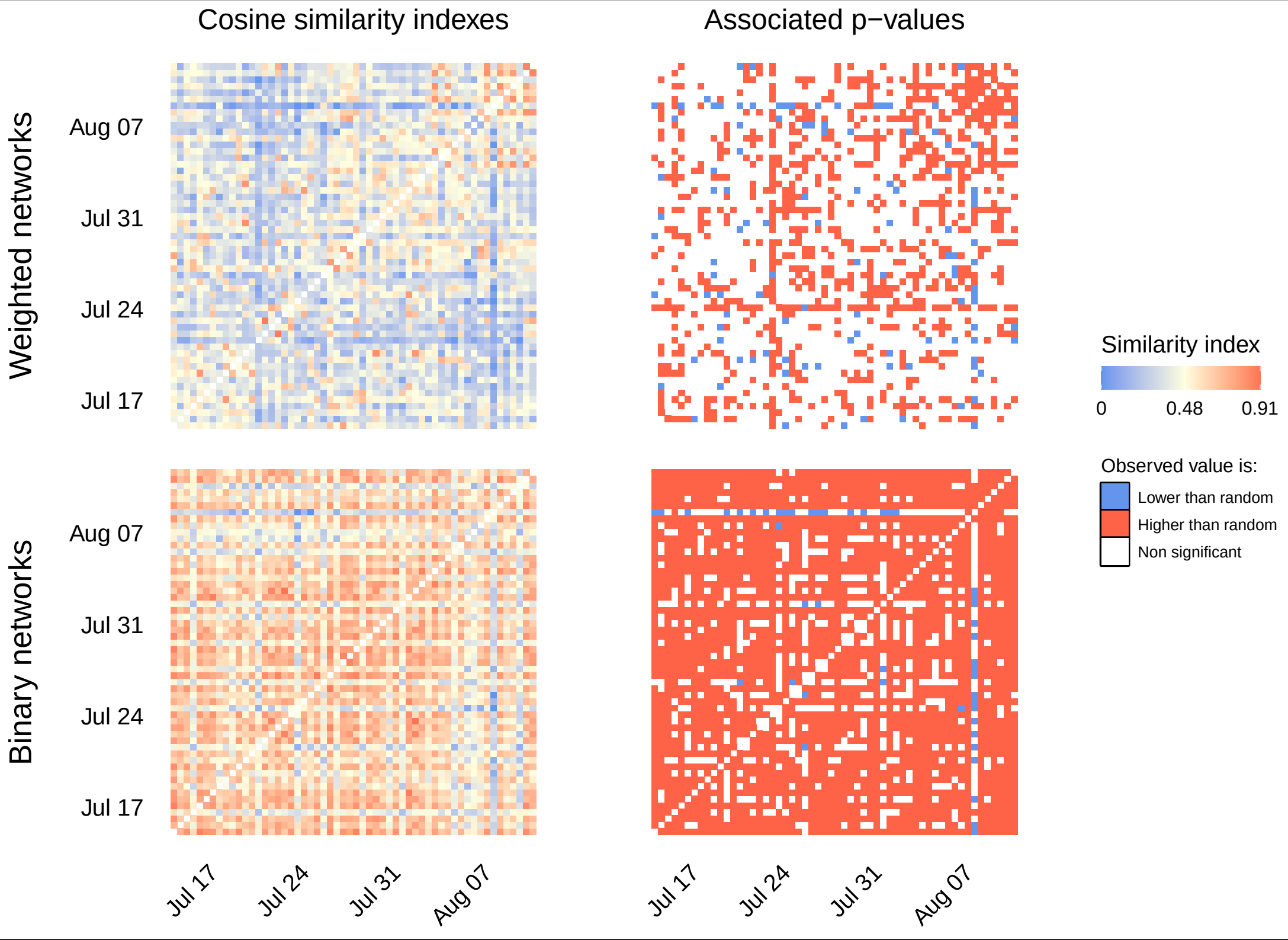

network density
0.5
0.4
0.3
0.2
0.1
ns
group social differentiation
5
4
3
2
***
individual selectivity
2.5
2.0
1.5
***
Jul 17
Jul 24
Jul 31
Aug 07
day
night

Figure 5: Pairwise cosine similarity indexes between all possible pairs of social networks (left) and associated permutation-based p-values (right) for weighted networks (top) and binary networks (bottom).


Cosine similarity indexes
Associated p−values
Weighted networks
Binary networks
Aug 07
Jul 31
Jul 24
Jul 17
Jul 17
Jul 24
Jul 31
Aug 07
Similarity index
0
0.48
0.91
Observed value is:
Lower than random
Higher than random
Non significant