Pernille Højlund Brams | Student_no: 201906235, AUID650502   May 27, 2021

Klara Krøyer Fomsgaard | Student_no: 201906449, AUID648487

Course: *Social & Cultural Dynamics of Cognition*, Supervisor: *Riccardo Fusaroli*

Appendix B: Plots & figures

Table of Contents

Pernille Højlund Brams | Student_no: 201906235, AUID650502   May 27, 2021

Klara Krøyer Fomsgaard | Student_no: 201906449, AUID648487

Course: *Social & Cultural Dynamics of Cognition*, Supervisor: *Riccardo Fusaroli*

Plots & figures: Networks

Network 1 & 2:
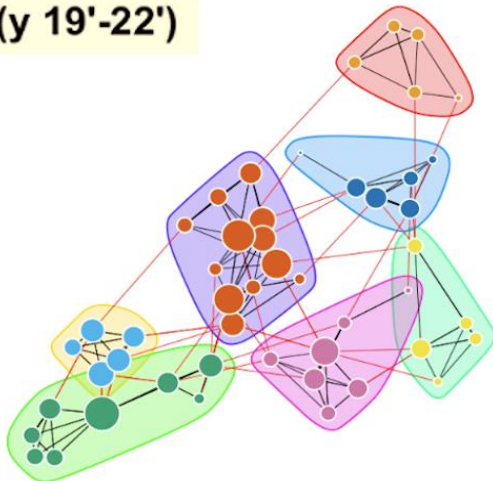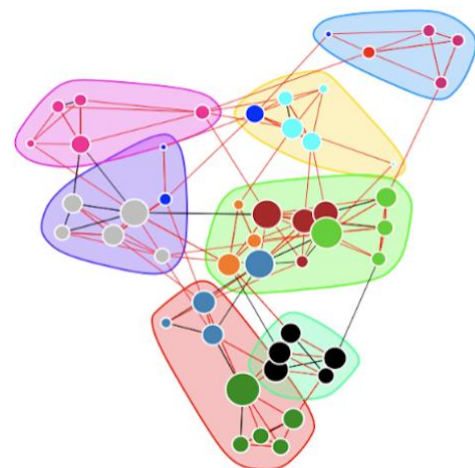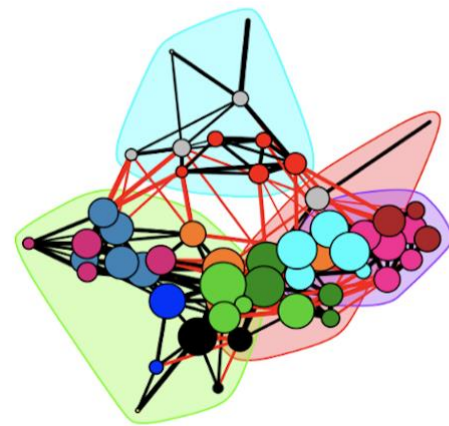

Network 1: Visualization of networks for C18 (top) and C19 (bottom) colored by social clusters. The visualization steps can be found in "SNA_PreprocessingandViz.rmd"
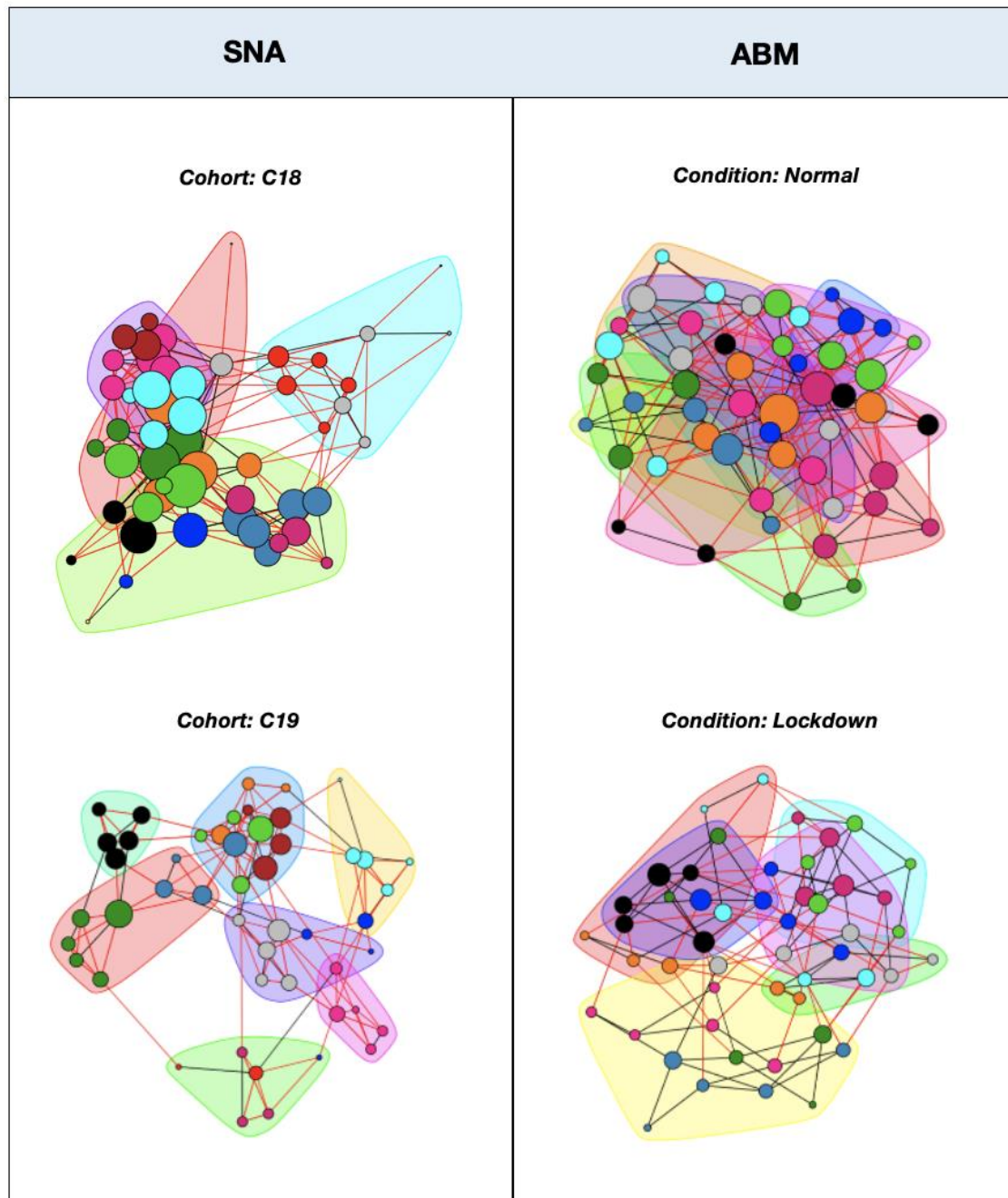
Network 2: Visualization of networks for C18 (top) and C19 (bottom) with nodes colored by studygroup and shades representing social clusters. It can be seen that for both networks, study group members tend to lie close in the network, however, C18 seem much more connected out of study groups than C19. This is well supported by the results of the analysis. The visualization steps can be found in "SNA_PreprocessingandViz.rmd".

Pernille Højlund Brams | Student_no: 201906235, AUID650502   May 27, 2021

Klara Krøyer Fomsgaard | Student_no: 201906449, AUID648487

Course: *Social & Cultural Dynamics of Cognition*, Supervisor: *Riccardo Fusaroli*

Social network plots – both real, and ABM simulated

Network 3 & 4: Comparative plot of visualizations of social networks colored by study group

and shaded by social cluster. **3,** Left: Visualization of real-world network data from

university students. **4,** Right: Visualizations of simulated networks using an ABM

Pernille Højlund Brams | Student_no: 201906235, AUID650502   May 27, 2021

Klara Krøyer Fomsgaard | Student_no: 201906449, AUID648487

Course: *Social & Cultural Dynamics of Cognition*, Supervisor: *Riccardo Fusaroli*

Pernille Højlund Brams | Student_no: 201906235, AUID650502   May 27, 2021

Klara Krøyer Fomsgaard | Student_no: 201906449, AUID648487

Course: *Social & Cultural Dynamics of Cognition*, Supervisor: *Riccardo Fusaroli*

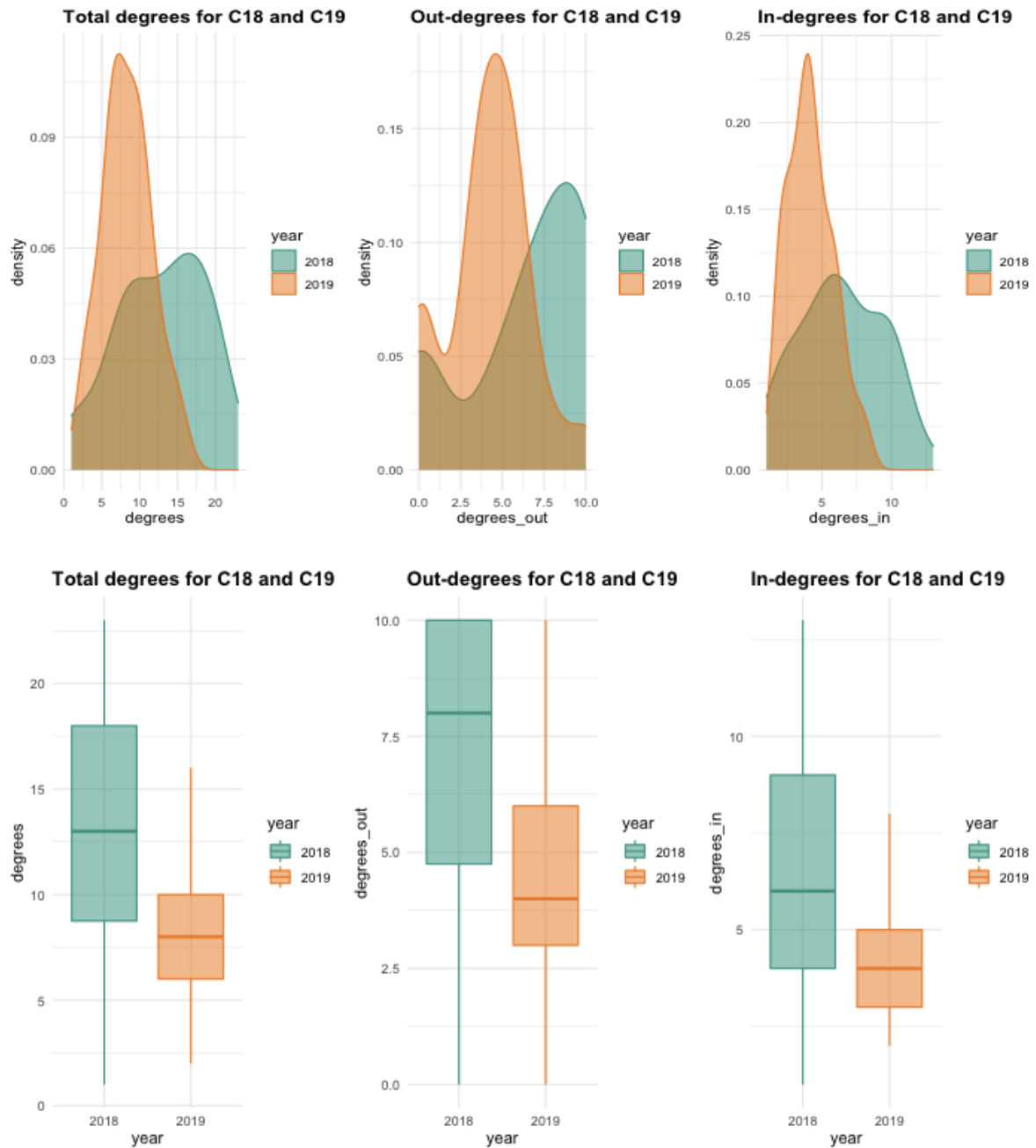# Distributions of in-, out- all degrees between C18 and C19

Figure 1: Comparing distributions w. density plots and boxplots of total, out- and in-degrees. All three panels show similar tendencies across the two cohorts. For out-degrees, which is essentially "giving" friendship, C18 has more people nominating 8-10 friends, compared to C19, where more people nominated 3-6 friends. For in-degrees, which is essentially "receiving" friendship, C18 has a more even distribution, whereas for C19, most people are nominated by below 5-6 people. Both these patterns are also reflected in the plots for total degrees.

Pernille Højlund Brams | Student_no: 201906235, AUID650502   May 27, 2021

Klara Krøyer Fomsgaard | Student_no: 201906449, AUID648487

Course: *Social & Cultural Dynamics of Cognition*, Supervisor: *Riccardo Fusaroli*

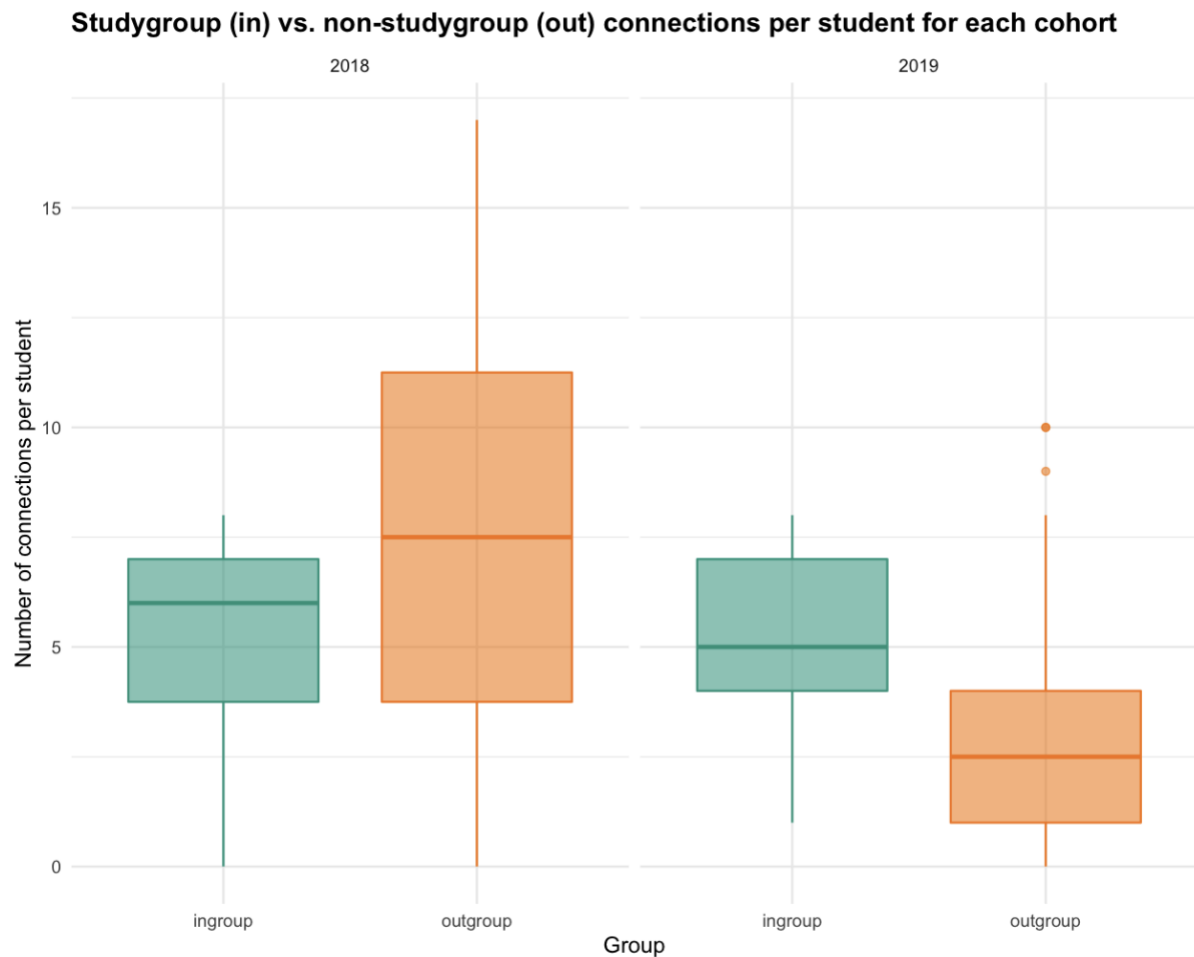# Splitting total degrees in study group / non-studygroup

Figure 2: Distribution of studygroup vs. non-studygroup connections per student for each cohort. The plot shows a similar distribution of in-studygroup connections for both cohorts. In contrast, a visible difference between cohorts can be seen in the distribution of outgroup connections: Where cohort 2019 has fewer outgroup than in-group connections, the 2018 cohort is much more dispersed, but generally showing the opposite trend

Data collection overview

Pernille Højlund Brams | Student_no: 201906235, AUID650502   May 27, 2021

Klara Krøyer Fomsgaard | Student_no: 201906449, AUID648487

Course: *Social & Cultural Dynamics of Cognition*, Supervisor: *Riccardo Fusaroli*
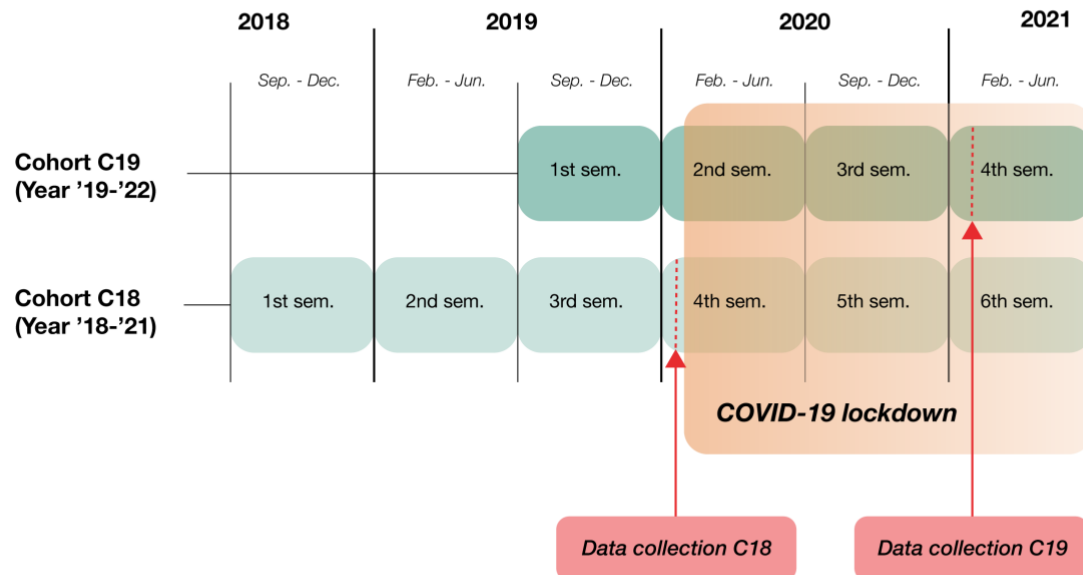

Figure 3. *Overview of timing of data collection for the two cohorts relative to the COVID-19 lockdown.*