

# *Systems Science for Social Impact*

## *Social Network Analysis Track – Overview and Agenda*

Instructors: Doug Luke & Todd Combs

- All track sessions are in Hillman 270.
- The network track uses real network data that will be provided in the workshop. Network analyses will be conducted using packages in R/RStudio.
- Workshop sessions will be a mix of lecture and hands-on network analyses.
- All materials will be available in a shared Box drive directory.
- With one small exception, there is no assigned homework.

<i>Session</i>	<i>Topics</i>
0 – Workshop prep	<ul style="list-style-type: none"><li>• Support materials for workshop</li></ul>
1 – Monday morning (2 hours)	<ul style="list-style-type: none"><li>• Network science overview and history</li></ul>
2 – Monday afternoon (2 hours)	<ul style="list-style-type: none"><li>• Network fundamentals; Network data</li></ul>
3 – Tuesday morning (3 hours)	<ul style="list-style-type: none"><li>• Visualization</li></ul>
4 – Tuesday afternoon (2 hours)	<ul style="list-style-type: none"><li>• Prominence</li></ul>
5 – Wednesday morning (3 hours)	<ul style="list-style-type: none"><li>• Subgroups and community detection</li></ul>
6 – Wednesday afternoon (2 hours)	<ul style="list-style-type: none"><li>• Affiliation networks; Surveys</li></ul>
7 – Thursday morning (3 hours)	<ul style="list-style-type: none"><li>• Mathematical models; Interactive tools</li></ul>
8 – Thursday afternoon (2 hours)	<ul style="list-style-type: none"><li>• Statistical models</li></ul>
9 – Friday morning (3 hours)	<ul style="list-style-type: none"><li>• Shared consulting; Wrap-up; Evaluation</li></ul>



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