15 min Shahram: Introduction, Goals of the Workshop

5 min Jonathan: Intro to Installing in R.

10 min Jonathan: Get people Installing the code prior to speaking.

WiFi access here or pre-downloaded.

------------- 30 min -------------- (while they are installing)

15 min Jonathan: Data Science Overview, discussion of tools

t-SNE, UMAP, FlowSOM, SPADE, Phenograph, dbscan, MEM, etc.

15 min Jonathan: Examples of analysis #1 & #2

Gandelman et al., Haematologica 2018 (patients)

Diggins et al., Nature Methods 2017 (PBMC)

------------- 60 min -------------- (while they are installing)

15 min Duncan: Example of analysis #3

(REF)

15 min Shahram: Example of analysis #4

(REF)

------------- 90 min -------------- (while they are installing / troubleshooting the installing)

30 min All: Take questions on Tools, Examples, and Installing.

Buffer time for longer talks

------------- 120 min --------------

Coffee Break

------------- 150 min --------------

30 min Jonathan: Lead data analysis of Examples #1 and #2

------------- 180 min --------------

15 min Jonathan: Continue and conclude with any more analysis examples in R

15 min ???: Lead data analysis of ??? (Shahram / Duncan)

------------- 210 min --------------

30 min ???: Lead data analysis of ??? (Shahram / Duncan

------------- 240 min --------------