Day 0 – Set Up Sunday, 6/6/21

Times	Activity	CASOS TA Staff for Sunday
TIME TBD US Eastern	Assistance with	
TIME TBD US Eastern	loading software on	
	machines	

The focus of Sunday:

- 1) helping participants get the software onto their machines and loading properly.
- 2) helping the participants load their data into the tools.
- 3) provide some one-on-one support to participants having access issues.

CASOS PhDs and Post Doctorates:

Catherine King	Geoff Dobson
Daniele Bellutta	Ramon Villa-Cox
Janice Blane	Matthew Babcock, PhD
Thomas Magelinski	Christine Lepird
Isabel Murdock	Josh Uyheng
Jeremy Straughter	Stephen Dipple, PhD
Luke Osterritter	Lynnette Ng
JD Moffitt	Mihovil Bartulović

^{*}Sunday is not a required day for participants. It is optional to join the zoom meeting.

^{**}Lectures and common instruction begin on Monday June 7, 2021.

Day 1 – Overview and Getting Started Monday, 6/7/21

LIVE INSTRUCTION SCHEDULE

Session Times: 9:30am – 12:30pm & 1:30pm – 5:30pm All Times US Eastern

All Times US Eastern		
Time/Duration	<u>What</u>	<u>Instructor</u>
9:30am – 9:40am	Welcome	Prof. Kathleen M. Carley
9:40am – 11:30am	Dynamic Network Analysis Overview & Basics	Prof. Kathleen M. Carley (Lecture)
11:30am – 12:30pm	DNA - key metrics	Prof. Kathleen M. Carley (Lecture)
BREAK 12:30pm – 1:30pm		
1:30pm – 2:30pm	ORA – Basic Interface, Import CSV file, email import, Key Entity Report, Citation import, Citation report	Jeff Reminga (Hands On)
2:30pm – 3:30pm	ORA – Visualizer Basics	Jon Storrick (Hands On)
BREAK 3:30pm – 3:45pm		
3:45pm – 4:45pm	Groups & Topology	Prof. Kathleen M. Carley (Lecture)
4:45pm – 5:30pm	ORA – Group Report, using attributes in Group Report, Reports with 2 or more meta- networks, finding which measure is in which report	Jeff Reminga (Hands On)
6:00pm – 7:00pm	Virtual Reception	All participants and CASOS Center
1hr	Q&A Session/Help with loading software	Participants and TA's – by appointment

Day 2 - Data Tuesday, 6/8/21

	LIVE INSTRUCTION SCHEDULE		
•	Session Times: 9:30am – 12:30pm & 1:30pm – 5:30pm All Times US Eastern		
Time/Duration	<u>What</u>	<u>Instructor</u>	
9:30am – 9:40am	Where does the data come from?	Prof. Kathleen M. Carley (Lecture)	
9:40am – 10:40am	Text to Networks & Semantic Networks	Prof. Kathleen M. Carley (Lecture)	
10:40am – 11:00am	NetMapper	Prof. Kathleen M. Carley (Lecture)	
11:00am – 12:00pm	NetMapper – from texts to networks	Neal Altman (Hands On) (Janice Blane)	
12:00pm – 12:30pm	A Cautionary Note about Saving Unicode Text from Excel	Neal Altman (Hands On) (Janice Blane)	
BREAK 12:30pm – 1:30pm			
1:30pm – 2:00pm	Edit Data, Create Thesauri or Delete List, Apply functions to Many Files	Jeff Reminga (Hands On)	
2:00pm – 2:30pm	LDA, LSA for Topic Modeling in ORA	Joshua Uyheng (Hands On)	
2:30pm – 3:00pm	Stance Mining (Title TBD)	Daniele Bellutta (Hands On)	
	BREAK 3:00pm – 3:15pm		
3:15pm – 4:00pm	Dynamic Networks for Social Media	Prof. Kathleen M. Carley (Lecture)	
4:00pm – 5:00pm	BEND & Community Assessment	Prof. Kathleen M. Carley (Lecture)	
5:00pm – 5:30pm	Semantic Report, BEND Report	Janice Blane (Hands On)	
1hr	Q&A Sessions/Watch Case Study Videos	Participants and TA's – by appointment	
ASSOCIATED PRE-TAPED CASE STUDY VIDEOS:			
1 hr	Text as a Network Analysis of COVID-19 Related Tweets	JD Moffitt (Case Study)	
1 hr	TBD	Janice Blane (Case Study)	
1 hr	Networks of Hate Speech in COVID-19 Discourse	Joshua Uyheng (Case Study)	

Day 3 – Basic Analysis

Wednesday, 6/9/21

LIVE INSTRUCTION SCHEDULE Session Times: 10:00am – 12:30pm & 1:30pm – 5:30pm All Times US Eastern			
Time/Duration	<u>What</u>	<u>Instructor</u>	
10:00am – 11:00am	Centralities, redundancies, cognitive demand - Key Entity Report, Management Report	Geoff Dobson (Hands On) (Daniele Bellutta)	
11:00am – 11:45am	One and Two Mode Metrics, Folding	Ramon Villa-Cox (Hands On) (Catherine King)	
11:45am – 12:30pm	Metric Based Comparison	Christine Lepird (Hands On)	
BREAK 12:30pm – 1:30pm			
1:30pm – 2:30pm	Advanced Visualization, Big Data	Jon Storrick (Hands On)	
2:30pm – 3:30pm	Visualizing Change in Networks	Jon Storrick (Hands On)	
	BREAK 3:30pm – 3:45pm		
3:45pm – 4:30pm	MRQAP and Regression, Visualize Distributions How to put network metrics in regressions	Jeff Reminga (Hands On)	
4:30pm – 5:00pm	Prediction and Comparison of Networks	Catherine King (Hands On)	
5:00pm – 5:30pm	Clustering - Unimodal, to Cluster Ensembling, to Multi-Modal Clustering	Tom Magelinski (Hands On)	
1hr	Q&A Sessions/Watch Case Study Videos	Participants and TA's – by appointment	
ASSOCIATED PRE-TAPED CASE STUDY VIDEOS:			
1 hr	Finding Factions from Ukrainian Legislative Data	Tom Magelinski (Case Study)	
1 hr	Text and Networks	Jeremy Straughter (Case Study)	

Day 4 – Dynamics & Spatial Reasoning Thursday, 6/10/21

LIVE INSTRUCTION SCHEDULE Session Times: 9:30am – 12:30pm & 1:30pm – 4:15pm All Times US Eastern		
Time/Duration	<u>What</u>	<u>Instructor</u>
9:30am – 11:00am	Dynamics: Reasoning About Networks Over Time	Prof. L. Richard Carley (Lecture)
11:00am – 11:30am	Fourier Analysis, change detection Follow along	Prof. L. Richard Carley (Lecture)
11:30am – 12:00pm	Geo-temporal Networks and Visualization	Prof. L. Richard Carley (Lecture)
12:00pm – 12:30pm	Geo-Spatial Visualization	Jon Storrick (Hands On)
	BREAK 12:30pm – 1:30pm	
1:30pm – 2:00pm	Collecting and Analyzing Twitter Data Best Practices	Ramon Villa-Cox (Lecture and Hands On) (JD Moffitt)
2:00pm – 2:30pm	Collecting and Analyzing Reddit Data Best Practices	Christine Lepird (Lecture and Hands On)
2:30pm – 3:00pm	Twitter Importers, Twitter Report Reddit Importer, Reddit Report	Jeff Reminga (Hands On)
	BREAK 3:00pm – 3:15pm	
3:15pm – 3:45pm	Twitter De-identification and Microvisualizations	Jon Storrick (Hands On)
3:45pm – 4:15pm	Finding Bots and Trolls	Joshua Uyheng (Hands On)
1 hr	Q&A Sessions/Watch Case Study Videos	Participants and TA's – by appointment
ASSOCIATED PRE-TAPED CASE STUDY VIDEOS:		
1 hr	Examining the COVID Protest Discussion on Twitter	Matthew Babcock, PhD (Case Study)
1 hr	Exploring Russian Influence Campaigns Over Time on Reddit	Christine Lepird (Case Study)
1 hr	Ecuadorian Protests	Ramon Villa-Cox (Case Study)
1 hr	Twitter Hashtag Community Analysis: A Case Study on the Canadian Elections	Daniele Bellutta and Catherine King (Case Study)

Day 5 – Simulation Friday, 6/11/21

LIVE INSTRUCTION SCHEDULE Session Times: 9:30am – 12:30pm & 1:30pm – 4:30pm All Times US Eastern			
Time/Duration	<u>What</u>	<u>Instructor</u>	
9:30am – 10:30am	Social Influence Theory	Prof. Kathleen M. Carley (Lecture)	
10:30am – 11:00am	Trails and Networks: From Trails to Networks and Higher-order Networks	Mihovil Bartulović (Hands On)	
11:00am – 11:30am	Trails and Networks: Loom; Network representation of Trails	Mihovil Bartulović (Hands On)	
11:30am – 12:00pm	Synthetic Networks	Luke Osterritter (Lecture)	
12:00pm – 12:30pm	Immediate Impact Analysis	Tom Magelinski (Hands On) (Catherine King)	
	BREAK 12:30pm – 1:30pm		
1:30pm – 2:30pm	Agent Based Modeling - Intro	Mike Kowalchuk (Hands On)	
2:30pm – 3:00pm	Virtual Experiments	Geoff Dobson (Hands On) (Luke Osterritter)	
	BREAK 3:00pm – 3:15pm		
3:15pm – 3:45pm	Micro-Simulations in ORA	Tom Magelinski (Hands On)	
3:45pm – 4:30pm	Construct	Stephen Dipple (Hands On)	
1hr	Q&A Sessions/Watch Case Study Videos	Participants and TA's – by appointment	
ASSOCIATED PRE-TAPED CASE STUDY VIDEOS:			
1 hr	Cyber-FIT	Geoff Dobson (Case Study)	

Day 6 – Advanced Issues Saturday, 6/12/21

LIVE INSTRUCTION SCHEDULE Session Times: 10:00am – 12:15pm All Times US Eastern		
<u>Time</u>	<u>What</u>	<u>Instructor</u>
10:00am – 10:45am	Triad Census, Heat Maps and other Visualizations	Luke Osterritter (Lecture and Hands On)
10:45am – 11:15am	Handling Large Data Sets	Jeff Reminga (Hands On)
11:15am – 11:45am	Ego Network Reports	Jeff Reminga (Hands On)
11:45am – 12:15pm	Machine Learning Models in ORA	Mike Kowalchuck (Hands On)
2hr	Q&A Sessions/Watch Case Study Videos	Participants and TA's – by appointment
ASSOCIATED PRE-TAPED CASE STUDY VIDEOS:		
1 hr	Conversations around Insider Threat	Luke Osterritter (Case Study)
45 min	Interaction Network Dynamic Network Analysis in ORA	Geoff Dobson (Case Study)
1 hr	Project OMEN	Catherine King & Christine Leprid (Case Study)

Day 7 – One on One

Extra Sunday 6/13/21

<u>Time</u>	<u>What</u>	<u>Instructor</u>
TBD by Appointment	**During the week we will be grouping together participants with students, this day is optional and for anyone who needs further instruction. Timings will be established with TA's and participants	All CASOS TA's