

CASOS Summer Institute 2014

Day 0 – Set Up

Sunday, 6/15/14

13:30-16:30	Set Up and Individualized Data Entry	CASOS TA Staff for Sunday	
		Kenny Joseph	Will Frankenstein
		Geoff Morgan	Wei Wei
		Momin Malik	Ghita Mezzour

The focus of Sunday is for one-on-one extra help in

- 1) getting the software onto the participants machines
- 2) helping the participants load their data into the tools
- 3) and providing some one-on-one support or small group support focused around the participants interest

Sunday is not a required day for participants. It is optional.

Lectures and common instruction begin on Monday

CASOS PhDs:

Kenny Joseph	Will Frankenstein
Geoff Morgan	Wei Wei
Momin Malik	Ghita Mezzour

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Day 1 – Overview and Getting Started

Monday, 6/16/14

<u>Time</u>	<u>What</u>	<u>Instructor</u>	<u>TA's</u>
08:00 - 08:30	Breakfast & Registration - start making sure software is on machines		All CASOS PhDs
08:30 - 08:40	Welcome	Prof. Kathleen M. Carley	
08:40 - 10:45	Dynamic Network Analysis Overview	Prof. Kathleen M. Carley	All CASOS PhDs
10:45 - 11:00	Break		
11:00 - 12:30	DNA - key metrics	Prof. Kathleen M. Carley	All CASOS PhDs
12:30 - 13:30	Lunch - & make sure software is on machines		All CASOS PhDs
13:30 - 14:30	Groups	Prof. Kathleen M. Carley	All CASOS PhDs
14:30 - 15:00	Topology and Dynamics	Prof. Kathleen M. Carley	All CASOS PhDs
15:00 - 15:30	Semantic Network Analysis	Prof. Kathleen M. Carley	All CASOS PhDs
15:30 - 15:45	Break		
15:45 - 17:30	ORA – Basic Interface and Visualization	Jeffrey R. Reminga	All CASOS PhDs
17:30 - 18:00	Pictures	All SI and All CASOS Faculty, Staff and PhD Students	
18:00 - 20:00	Reception	All CASOS Center Invited	

All CASOS PhDs	Will Frankenstein, Kenny Joseph, Momin Malik, Ghita Mezzour, Geoffrey Morgan, Wei Wei
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Day 2 – Data

Tuesday, 6/17/14

<u>Time</u>	<u>What</u>	<u>Instructor</u>	<u>TA's</u>
08:00 - 08:15	Breakfast Continental		
08:15- 08:30	Where does the data come from?	Prof. Jürgen Pfeffer	All CASOS PhDs
08:30-10:15	Text to Networks	Prof. Kathleen M. Carley	All CASOS PhDs
10:15 - 10:30	Break		
10:30 - 11:30	AutoMap	Neal Altman	All CASOS PhDs
11:30-12:00	Email Data (CEMAP)	Jeff Reminga	All CASOS PhDs
12:00 - 13:00	Lunch		
13:00 - 14:00	Twitter Data	Prof. Jürgen Pfeffer	All CASOS PhDs
14:00-15:00	Qualitative Data	Prof. Jürgen Pfeffer	All CASOS PhDs
15:00 - 15:15	Break		
15:15 - 17:00	Thesauri and Delete, Import Wizard	Jeff Reminga	All CASOS PhDs
17:00 - 18:45	Small Group Work: Hands On	ALL	All CASOS PhDs

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Day 3 – Basic Analysis

Wednesday, 6/18/14

<u>Time</u>	<u>What</u>	<u>Instructor</u>	<u>TA's</u>
08:00 - 08:15	Breakfast Continental		
08:15- 09:15	Centralities, redundancies, cognitive demand - Measures and Reports	Prof. Jürgen Pfeffer	All CASOS PhDs
09:15 - 10:15	Groups: Locate group report, Grouping Algorithms in reports and visualizer - Components, Concor, Newman, Fog, Johnson Clustering, Using Information on Node Attributes : In the Visualizer, In Reports, in the Group Report	Prof. Jürgen Pfeffer	All CASOS PhDs
10:15 - 10:30	Break		
10:30 - 11:30	Reasoning about Networks Over Time: Types of Dynamical analysis	Prof. Kathleen M. Carley	All CASOS PhDs
11:30-12:00	Fourier Analysis, change detection	Ghita Mezzour	All CASOS PhDs
12:00 - 13:00	Lunch		
13:00 - 14:00	Prediction and Comparison of Two or More Networks Networks: Hamming Distance, Correlation, QAP, MRQAP	Prof. Jürgen Pfeffer	All CASOS PhDs
14:00-15:00	MRQAP and Regression	Ghita Mezzour	All CASOS PhDs
15:00 - 15:15	Break		
15:15 - 17:00	One and Two Mode Metrics, Assessing Change, Folding	Wei Wei	All CASOS PhDs
17:00 - 18:45	Small Group Work: Hands On	ALL	All CASOS PhDs

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Day 4 – Visualization & Spatial Analysis

Thursday, 6/19/14

<u>Time</u>	<u>What</u>	<u>Instructor</u>	<u>TA's</u>
08:00 - 08:30	Breakfast Continental		
08:30 - 10:30	ORA-GIS, Geo-Spatial Visualization	Jon Storrick	All CASOS PhDs
10:30 - 10:45	Break		
10:45 - 12:15	Visualization Techniques Using ORA	Prof. Jürgen Pfeffer	All CASOS PhDs
12:15 - 13:15	Lunch		
13:15 - 14:35	Dynamics, Trails and Networks: Loom; Going from Trails to Networks and Networks to Trails	Kenny Joseph	All CASOS PhDs
14:30-14:45	Break		
14:45-15:15	Synthetic Networks	Wei Wei	All CASOS PhDs
15:15-16:00	Assessing Synthetic Networks	Prof. Jürgen Pfeffer	All CASOS PhDs
16:00-16:30	Micro-Simulations in ORA	Kenny Joseph	All CASOS PhDs
16:30-17:00	Immediate Impact Analysis	Geoff Morgan	All CASOS PhDs
17:00 - 18:45	Small Group Work: Hands-on	Group Leads: TBD	All CASOS PhDs

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Day 5 – Network Simulation

Friday, 6/20/14

<u>Time</u>	<u>What</u>	<u>Instructor</u>	<u>TA's</u>
08:00 - 08:30	Breakfast Continental		
08:30 - 9:30	Agent Based Modeling	Prof. Kathleen M. Carley	All CASOS PhDs
09:30 - 10:30	Constructural Theory	Prof. Kathleen M. Carley	All CASOS PhDs
10:30 - 10:45	Break		
10:45 - 11:15	Near Term Analysis	Kenny Joseph	All CASOS PhDs
11:45 - 13:00	Lunch		
13:00 - 14:00	Using Construct Through ORA	Geoff Morgan	All CASOS PhDs
14:00 - 15:00	Illustrative Construct Results: AutoMap-to-ORA-to- Construct Arab Spring , Kenny	Kenny Joseph	All CASOS PhDs
15:00 - 15:30	Break		
15:30 – 16:00	Virtual Experiments	Kenny Joseph	All CASOS PhDs
16:00 – 17:00	Validation Extended Construct	Geoff Morgan	All CASOS PhDs
17:00 - 18:30	Small Group Work: Hands On	Group Leads	All CASOS PhDs

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Day 6 – Case Studies

Saturday, 6/21/14

<u>Time</u>	<u>What</u>	<u>Instructor</u>	<u>TA's</u>
08:00 - 08:30	Breakfast Continental		
08:30 - 9:30	Large Dynamic Networks	Geoff Morgan	All CASOS PhDs
09:30 - 10:30	Geo-Temporal Networks	Wei Wei	All CASOS PhDs
10:30 - 10:45	Break		
10:45 - 11:15	Organizational Networks	Geoff Morgan	All CASOS PhDs
11:15 - 12:00	Resiliency Modeling	Geoff Morgan	All CASOS PhDs
12:00 - 13:00	Lunch		
13:00 – 14:00	Nuclear, Bio and Cyber Networks Social Influence Modeling	Ghita Mezzour	All CASOS PhDs
14:00-15:00	Twitter Nuclear Networks	Will Frankenstein	All CASOS PhDs
15:00 - 15:30	Break		
15:30 - 16:15	Metrics for Large Data	Wei Wei	All CASOS PhDs
16:15 - 17:00	Paul Revere	Will Frankenstein	All CASOS PhDs
17:00 - 18:45	Small Group Work: Hands On	Group Leads	All CASOS PhDs

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Day 7 – One on One – Extra Sunday 6/22/2014

<u>Time</u>	<u>What</u>	<u>Instructor</u>
08:00 - 08:30	Breakfast Continental	
08:30 - 10:30	Break out sessions on tools and individualized training	All CASOS PhDs
10:30 - 10:45	Break	
10:45 - 12:15	Break out sessions on tools and individualized training	All CASOS PhDs
12:15 - 13:15	Lunch	
13:15 - 14:45	Break out sessions on tools and individualized training	All CASOS PhDs
14:45 - 15:00	Break	