

CASOS Summer Institute 2025

Day 0 – Set Up

Sunday, 8/3/25

Times	Activity	How to participate
1:00pm – 3:00pm	*Assistance for participants; help with loading software and data on machines, Troubleshoot access issues	Virtual Assistance: Join Zoom Meeting In-person Assistance: GHC 4405

The focus of Sunday:

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

****SUNDAY IS NOT A REQUIRED DAY FOR PARTICIPANTS. Sessions begin on Monday August 4, 2025 at 8:30am US Eastern.***

Faculty & Technical Staff:

Prof. Kathleen M. Carley	Prof. L. Richard Carley	Jon Storricks
Geoffrey Dobson, PhD	Jonathan Howard Morgan, PhD	Dawn Robertson

CASOS Postdoc Researchers and Graduate Student TAs:

Bianca Kang	Lynnette Ng	Jake Shaha
Evan Williams	Luke Osterritter	Ian Kloo
Peter Carragher	Samantha Phillips	Jake Shin
Rebecca Marigliano	Daniele Bellutta	

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Links and participant info:

Online participants will be able to join sessions live via Zoom during instruction days at the link below. If you join remotely, members of the CASOS team will be online to moderate questions during live sessions.

**All sessions will be recorded and available to view by the following day. Videos of the sessions will be available for all participants through August 31, 2025.*

In-Person Participants will meet each day in Gates/Hillman Center (GHC), 4902 Forbes Ave., Pittsburgh, PA, Room 4405 on the 4th floor. Get an interactive Carnegie Mellon University campus map, <https://www.cmu.edu/visit/maps-parking-transportation.html>. Breakfast and lunch will be provided for in-person attendees throughout instruction days but not on Sundays. Breakfast will be available an hour prior to the start of each instruction day.

All Participants will have access to software, data, slides from the presentations, posters, and other course materials in the Summer Institute Box Folder. You will be able to access the folder with the email you registered with.

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Day 1

Monday, 8/4/25

LIVE INSTRUCTION SCHEDULE		
<i>All Times US Eastern</i>		
<u>Time</u>	<u>Lecture/Presentation</u>	<u>Instructor</u>
8:30am	Welcome	Prof. Kathleen M. Carley
8:30am – 9:30am	AI Enabled Network Science	Prof. Kathleen M. Carley (Lecture)
9:30am – 10:00am	ORA-PRO Overview	Dr. Kathleen M. Carley (Jeff Reminga)
BREAK 10:00am – 10:15am		
10:15am – 10:45am	Scenario Introduction: Wizard of OZ	Samantha Phillips and Peter Carragher
10:45am – 11:30am	Key Entities (Beginner)	Samantha Phillips and Peter Carragher
11:30am – 12:15pm	Locate Groups (Beginner)	Samantha Phillips and Peter Carragher
LUNCH BREAK 12:15pm – 1:15pm		
1:15pm – 2:15pm	Compare Groups (Beginner)	Samantha Phillips
2:15pm – 3:15pm	Labeling Groups Using LLMs	Ian Kloo
BREAK 3:15pm – 3:30pm		
3:30pm – 4:30pm	Advanced Visualization	Jon Storrick
4:30pm – 5:30pm	Creating Scenarios	Jake Shaha
5:30pm – 8:00pm	Welcome Reception and Poster Session GHC Commons, 6 th Floor	All in-person participants and CASOS Center faculty, students and staff

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Day 2

Tuesday, 8/5/25

LIVE INSTRUCTION SCHEDULE <i>All Times US Eastern</i>		
<u>Time</u>	<u>Lecture/Presentation</u>	<u>Instructor</u>
8:30am – 9:30am	Influence and Information/BEND Analytics	Prof. Kathleen M. Carley (Lecture)
9:30am – 10:00am	NetMapper	Dawn Robertson
BREAK 10:00am – 10:15am		
10:15am – 11:15am	Stance Detection (Beginner)	Peter Carragher
11:15am – 12:15pm	Topic Detection (Beginner)	
LUNCH BREAK 12:15pm – 1:15pm		
1:15pm – 2:15pm	BEND Maneuvers (Beginner)	Peter Carragher
2:15pm – 3:15pm	Dredge Words and Websites	Evan Williams
BREAK 3:15pm – 3:30pm		
3:30pm – 4:00pm	BEND Effects (Advanced)	Peter Carragher
4:00pm – 4:30pm	BEND for Websites (Advanced)	Evan Williams
4:30pm – 5:30pm	Identities and Polarization	Samantha Phillips

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Day 3

Wednesday, 8/6/25

LIVE INSTRUCTION SCHEDULE <i>All Times US Eastern</i>		
<u>Time</u>	<u>Lecture/Presentation</u>	<u>Instructor</u>
8:30am – 9:30am	Social Talk	Prof. Kathleen M. Carley (Lecture)
9:30am – 10:00am	Introduce Scenario: AuraSight	Lynnette Ng and Bianca Kang
10:00am – 10:30am	Bots and Types of Bots	Lynnette Ng
BREAK 10:30am – 10:45am		
10:45am – 11:45am	Track Key Entities and Bots (Advanced)	Lynnette Ng
11:45am – 12:15pm	Locate Groups (Advanced)	Lynnette Ng
LUNCH BREAK 12:15pm – 1:15pm		
1:15pm – 2:15pm	Stance Detection (Advanced)	Bianca Kang
2:15pm – 3:15pm	Topic Detection (Advanced)	Bianca Kang
BREAK 3:15pm – 3:30pm		
3:30pm – 4:30pm	Victimization and Online Harms	Bianca Kang
4:30pm – 5:30pm	Creating Synthetic Media	Rebecca Marigliano

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Day 4

Thursday, 8/7/25

LIVE INSTRUCTION SCHEDULE <i>All Times US Eastern</i>		
<u>Time</u>	<u>Lecture/Presentation</u>	<u>Instructor</u>
8:30am – 10:00am	Dynamics: Reasoning About Networks Over Time	Prof. L. Richard Carley (Lecture) (Daniele Bellutta)
BREAK 10:00am – 10:15am		
10:15am – 11:15am	Ego Networks	Bianca Kang
11:15am – 12:15pm	Compare Groups	Bianca Kang
LUNCH BREAK 12:15pm – 1:15pm		
1:15pm – 2:15pm	Connecting Between Platforms	Peter Carragher or Jake Shaha
2:15pm – 3:15pm	Coordination	Lynnette Ng
BREAK 3:15pm – 3:30pm		
3:30pm – 4:30pm	Link Prediction	Daniele Bellutta
4:30pm – 5:30pm	Population Dynamics	Rebecca Marigliano

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Day 5

Friday, 8/8/25

LIVE INSTRUCTION SCHEDULE		
<i>All Times US Eastern</i>		
<u>Time</u>	<u>Lecture/Presentation</u>	<u>Instructor</u>
8:30am – 9:00am	Ghostfield – AI and Networks	Dr. Kathleen M. Carley (Lecture)
9:00am – 10:00am	Create Your Adventure	*All Participants
BREAK 10:00am – 10:15am		
10:15am – 11:15am	Random and Scale Free	Daniele Bellutta
11:15am – 12:15pm	Advantages and Limitations of Using LLM's	Evan Williams
LUNCH BREAK 12:15pm – 1:15pm		
1:15pm – 3:15pm	Assess Impact	Dr. Kathleen M. Carley and Dr. Jonathan Morgan
BREAK 3:15pm – 3:30pm		
3:30pm – 4:00pm	Why Synthetic Data is not Equivalent to Real Data	
4:00pm – 5:00pm	Takeaways	*All Participants
5:00pm	Farewell	Dr. Kathleen M. Carley