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14. ABSTRACT

15. SUBJECT TERMS

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UU	15. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON Kimberly Glasgow
a. REPORT UU	b. ABSTRACT UU	c. THIS PAGE UU			19b. TELEPHONE NUMBER 443-778-7444

RPPR Final Report
as of 24-Jun-2021

Agency Code: 21XD

Proposal Number: 73760NSCF

Agreement Number: W911NF-19-1-0018

INVESTIGATOR(S):

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EIN: 520595110

Report Date: 15-Jun-2021

Date Received: 13-Mar-2021

Final Report for Period Beginning 16-Nov-2018 and Ending 15-Mar-2021

Title: North American Social Network (NASN) Conference 2018-2020

Begin Performance Period: 16-Nov-2018

End Performance Period: 15-Mar-2021

Report Term: 0-Other

Submitted By: Kimberly Glasgow

Email: kimberly.glasgow@jhuapl.edu

Phone: (443) 778-74444

Distribution Statement: 1-Approved for public release; distribution is unlimited.

STEM Degrees:

STEM Participants:

Major Goals: The goal of this grant to support efforts to plan, organize and host a social network analysis conference to support the academic, government, and broader social networks community. Bring together scholars, researchers, practitioners, and students to share research and innovations, build community and enhance understanding of SNA-related research need of the U.S.

Accomplishments: The Third North American Social Networks (NASN) Conference was held virtually from 25-28 January 2021. NASN was a four-day conference that brought together diverse scholars from a range of disciplines. There were approximately 196 registrants who attended NASN. The conference was attended by multiple universities and government research sponsors. There were 90 accepted oral presentations, 28 accepted posters, two panels, and one keynote speech. Three hundred seventeen authors were represented in the oral and poster presentations. As part of an outreach effort to the STEM community, twenty-two STEM students (and their mentors) participated in NASN 2021, attending panels as well as regular NASN conference sessions. The students presented nine posters on their original SNA research, on topics ranging from climate change to food insecurity. A Grand Challenge session showcased 2 teams of finalists, who explored how social network analysis methods and network visualizations could provide insight into a multilingual data set of COVID misinformation and disinformation tweets.

Training Opportunities: Nothing to Report

Results Dissemination: Nothing to Report

Honors and Awards: Nothing to Report

Protocol Activity Status:

Technology Transfer: Nothing to Report

RPPR Final Report
as of 24-Jun-2021

WEBSITES:

URL: <http://iuni.iu.edu/nasn2018/cam/#/>

Date Received: 15-Aug-2019

Title: 2nd North American Social Networks Conference Manager

Description: online conference manager

URL: <http://insna.org/nasn2018/>

Date Received: 15-Aug-2019

Title: 2nd North American Social Networks (NASN) Conference of the International Network for Social Network Analysis NASN2018

Description: conference website

Partners

,

I certify that the information in the report is complete and accurate:

Signature:

Signature Date:

Please refer to:
FGXC2SNA
12 March 2021

U.S. Army Research Office
P.O. Box 12211
Research Triangle Park, NC 27709

Subject: North American Social Networks Conference

1. Purpose: This document provides an accounting of a generous grant of \$17,941.00 from the U.S. Army Research Office (ARO) to plan, organize, and host the Third North American Social Networks (NASN) Conference, held virtually from 25-28 January 2021.

2. Overview: While originally intended to be a traditional in-person conference in Washington, DC, the ongoing pandemic necessitated a shift to an online event. NASN was held at virtually in January 2021. Details regarding the program can be obtained on the conference website, <https://www.insna.org/events/the-3rd-north-american-nasn>. NASN was a four-day conference that brought together diverse scholars from a range of disciplines. There were approximately 196 registrants who attended NASN. As a follow-up to our previous STEM outreach efforts, NASN 2021 included a STEM lightning poster session during which a curated set of SNA research projects from STEM Academy students were presented. This year, NASN 2021 also added a panel on SNA and Network Careers to support outreach to the STEM student community and inform and motivate students.

Twenty-two STEM students (and their mentors) participated in NASN 2021, attending panels as well as regular NASN conference sessions. The students presented nine posters on their original SNA research, on topics ranging from climate change to food insecurity. The STEM poster session was joined by numerous conference attendees, providing STEM students the opportunity to interact with researchers and receive feedback on their work.

The conference was attended by multiple universities and government research sponsors. There were 90 accepted oral presentations, 28 accepted posters, two panels, and one keynote speech. Three hundred seventeen authors were represented in the oral and poster presentations. Panels included a DoD Funder's panel as well as the aforementioned SNA and Network Careers panel. A Grand Challenge session showcased 2 teams of finalists, who explored how social network analysis methods and network visualizations could provide insight into a multilingual dataset of COVID misinformation and disinformation tweets.

3. Accounting: ARO provided a grant of \$17,941.00, which was used for design, planning and organizing, and conducting the virtual event, acquiring the license and managing the conference management system, technical support for the virtual platform, documentation, and website support/modifications. Accounting for ARO funding is provided:

Labor for design, planning, and organizing of event, and documentation	\$11,107.00
Website support and modifications	\$ 1,771.00
Conference management system and license	\$ 743.00
Virtual event technical support	\$ 4,320.00
Total	\$17941.00

4. Coordination. Please refer questions to Kimberly Glasgow at kimberly.glasgow@jhupl.edu.

Enclosures (uploaded):
Conference Website and Schedule

Respectfully,

Kimberly Glasgow
Principal Investigator, FGXC2N19
Asymmetric Operations Sector

The 3rd North American Social Networks Conference (NASN)

[BACK TO EVENTS](#)



REGIONAL CONFERENCE

Monday, January 25, 2021
to Thursday, January 28, 2021

Virtual

* Registration open until 1/21/21 at 11:59 PM (EST)



EVENT DETAILS

Call for Posters and Papers Opens: November 15

Registration Opens: November 16

Welcome to the North American Regional Social Networks (NASN) Conference of the International Network for Social Network Analysis (INSNA). The NASN Conference is a regional conference of INSNA. INSNA currently has over 800 members and more people than ever are interested in attending and presenting their work at INSNA conferences.

The NASN conference provides an interdisciplinary venue for social scientists, mathematicians, computer scientists, ethnologists, epidemiologists, organizational theorists, public health experts, and others to present current work in the area of social networks. The 2021 Conference will be held virtually January 25 - 28.

Conference Organizers

Kimberly Glasgow, kimberly.glasgow@jhuapl.edu

Anthony Johnson, anthony.johnson@jhuapl.edu

Ann McCranie, amccrani@indiana.edu

Ian McCulloh, ian.mcculloh@accenturefederal.com

Share Event:



NASN 2021 EVENT ACCESS (LOGIN REQUIRED)

[CALL FOR ORGANIZED SESSIONS](#)

[ABSTRACT SUBMISSIONS](#)

[2021 GRAND CHALLENGE](#)

[REGISTRATION](#)

[KEYNOTE](#)

[NASN FAQ'S](#)

[SCHEDULE OF EVENTS](#)

[AWARDS](#)

Registration Information

Ticket Type (all pricing USD)	Early registration thru January 3	January 4 thru January 21
INSNA Member	\$20	\$25
All Students	\$10	\$15
Non-member/Guest Regular	\$40	\$50

An INSNA.org account is required in order to register:

Current INSNA Members:

Click Registration Options above and select Member or Student Member Ticket

Non-member/Guests with an Account:

Click Registration Options above and purchase Non-member/Guest Ticket

Non-member/Guest without an Account (2 steps):

Create Non-Member/Guest Account [HERE](#)

Click Registration Options above and purchase Non-member/Guest Ticket

*You may need to refresh your browser after creating your non-member account

Expired INSNA Members:

If you do not wish to renew your INSNA membership at this time, please email support@insna.org so that your account may be changed from expired to a non-member account.

Cancellations:

- Cancellations must be received by email to support@insna.org.
- Cancellation requests received by January 4, 2021 will incur a 25% handling fee.
- No refunds will be available after January 4, 2021.

Registration fee waivers for hardship are available. Please email: nasocnet@gmail.com.

CONTACT

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Marietta, GA 30067
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16782710342



PUBLICATIONS

INSNA publishes or supports several key publications in the field, including: *Connections*, whose emphasis is to reflect the ever-growing and continually expanding community of scholars using network analytic techniques, as well as provide an outlet for sharing news about social network concepts and techniques and new tools for research; the *Journal of Social Structure*, an electronic journal designed to facilitate timely dissemination of state-of-the-art results in the interdisciplinary research area of social structure as well as publish empirical, theoretical and methodological articles; and *Social Networks*, an interdisciplinary and international quarterly providing a common forum for representatives of anthropology, sociology, history, social psychology, political science, human geography, biology, economics, communications science and other disciplines who share an interest in the study of the empirical structure of social relations and associations that may be expressed in network form.

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[ACKNOWLEDGE](#)

NASN 2021: Keynote

[>>Back to NASN 2021](#)

Dr. Kathleen M. Carley



Dr. Carley is a Professor of Computer Science in the Institute for Software Research, IEEE Fellow, and Director of the Center for Computational Analysis of Social and Organizational Systems (CASOS) and Director of the center for Informed DEMocracy And Social-cybersecurity (IDeaS) of the Center for at Carnegie Mellon University. She joined Carnegie Mellon in 1984 as Assistant Professor Sociology and Information Systems. In 1990 she became Associate Professor of Sociology and Organizations, in 1998 Professor of Sociology, Organizations, and Information Technology, and in 2002, attained her current role as Professor of Computation, Organization, and Society. She is also the CEO of Carley Technologies Inc. aka Netanomics.

Dr. Carley's research combines cognitive science, sociology, and computer science to address complex social and organizational issues. Her most notable research contribution was the establishment of Dynamic Network Analysis (DNA) – and the associated theory and methodology for examining large highdimensional time variant networks. Her research on DNA has resulted in tools for analyzing large-scale dynamic networks and various multi-agent simulation systems. She has led the development of tools for extracting sentiment, social and semantic networks, and cues from textual data (AutoMap & NetMapper), simulating epidemiological models (BioWar), and simulating changes in beliefs and practice given information campaigns (Construct). Her ORA system is one of the premier network analysis and visualization technologies supporting reasoning about geo-spatial and dynamic high-dimensional network data. It includes special features for handling small and big data, social media data, and network dynamics. It is used worldwide. Illustrative projects include assessment of fake news and social cyber-security threats, IRS outreach, impact of NextGen on airline re-rerouting, counter-terrorism modeling, counternarcotics modeling, health analytics, social media analytics of elections, and social media based assessment of crises such as Benghazi, Darfur, the Arab Spring, COVID-19, and elections around the world.

Education: Dr. Carley received SB degrees in Economics and in Political Science from M.I.T., and a PhD degree in Sociology from Harvard University, and an HD from the University of Zurich.

Publications: Dr. Carey has over 400 scientific publications, including: "Characterization and Comparison of Russian and Chinese Disinformation Campaigns" (2020), "Different Faces of False: The spread and curtailment of false information in the Black Panther Twitter discussion" (2019), Social Cybersecurity: An Emerging National Security Requirement" (2019), "Online extremism and the communities that sustain it: Detecting the ISIS supporting community on Twitter" (2017), "Transition Networks in a Cohort of Patients with Congestive Heart Failure" (2015).

Honors: Dr. Carley is an IEEE Fellow. She received an honorary doctorate from the University of Zurich in 2019. She is the recipient of the USGA Academic Award at GEOINT 2018 for her work on geo-spatially enabled dynamic network analytics, the Allen Newell award for research excellence, the Lifetime Achievement Award from the Sociology and Computers Section of the ASA (2001), and the Simmel Award for advances in social networks from INSNA (2011). She has served as President of the North American Association for Computational and Organizational Simulation (2003-2004) and the Mathematical Sociology Section of the American Sociological Association (1999-2000). She has served as a Task Force Member of the Defense Science Board and the Geographic Information Science Panel of the Strategic Command. She has served on multiple National Research Council panels including modeling for the military, big data, geo-spatial analytics, and the decadal survey for the social sciences and was a member of the DHS-HSSTAC.

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NASN 2021: Grand Challenge

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North American Social Network Conference: 2021 Grand Challenge

The NASN 2021 Grand Challenge asks researchers to explore a dataset and share their insights. The datasets selected for the Grand Challenge are typically both fairly new and not fully explored. There are no preconceived notions of what researchers should find or what conclusions should be reached. The goal is for the researchers to present what they determine are key insights or unique findings.

For 2021, we have created a new Twitter dataset around COVID disinformation. The Federation of American Scientists (<https://fas.org/author/disinfo/>) recently published two papers around vaccines and herd immunity. This year's challenge data is really a collection of several datasets. The data was pulled using the Twitter data access API and extracted over several queries. The data has not been cleaned or altered.

CAUTION: DO NOT explore links in the tweets. Some are known to point to viruses and malware.

The selection criteria are as follows:

Date Range:

- Sept 1 to Oct 23, 2020

Keywords:

- AstraZeneca
- "Astra Zeneca"
- AZD1222
- COVID
- vaccine
- immunity
- "herd immunity"
- Barrington
- "focused protection"

Number of Tweets: 2,507,401

Known issues:

- The data in the files are not in chronological order.
- The list of query terms and date range fluctuated over the extractions
- The number of columns fluctuated over the extractions
- There are gaps in the dataset
- Some of the embedded URLs point to malware site

Data:

The data is shared under the non-commercial / academic research terms of use, contains only publicly available data, and is not intended for the development of any new service or product.

By accessing the data, you are agreeing to the Twitter terms of use.

To request the data, please contact brees2011@my.fit.edu.

Submission:

Submission Deadline: January 15th, 2021

Send submissions via a Google Form: <https://forms.gle/c7dGZyvCQnSzGP2j8>

Format:

Up to 5 pages in Word or PDF format. The document should match the following structure:

1. Key Findings*
2. Analytic Approach
3. Results
4. Conclusion
5. References

*The Key Finding section can be thought of as an abstract of what the research uncovered at a high level. There is no need for an introduction or background section.

Entering the Grand Challenge does not preclude anyone from submitting an abstract for the primary NASN conference.

CONTACT

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NASN 2021: Agenda and Session Access

[>>>Back to NASN 2021](#)

Welcome to NASN 2021!

Attendees can access the schedule of each day's events as well as all relevant Zoom session links by clicking the appropriate day below.

**Note: You must remain logged in to you INSNA.org account in order to access this information.*

MONDAY SCHEDULE

TUESDAY SCHEDULE

WEDNESDAY SCHEDULE

THURSDAY SCHEDULE

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NASN 2021: Monday Schedule

Monday, January 25, 2021

[>>>Back to NASN 2021](#)

To join a session, click the category title in orange. Please note that all times are EST.

12:00 PM (EST) - 12:20 PM (EST)

- Welcome & Plenary Speakers**

12:20 PM (EST) - 1:20 PM (EST)

- Artificial Intelligence Chair: Anthony Johnson**

- 12:20 PM - 12:40 PM: "Modeling spread of curse words on a social network" Authors: Mudhakar Srivatsa, Diane Felmler, Roger Whitaker, Supriyo Chakraborty and Cheryl Giammanco
- 12:40 PM - 1:00 PM: "Labeled Subgraph Kernels for Social Network Analysis" Author: Carter Butts
- 1:00 PM - 1:20 PM: "Identification and control of dynamic processes on networked systems" Authors: Heman Shakeri and Ali Tavasoli

- Political Networks Chair: Ann McCranie**

- 12:20 PM - 12:40 PM: "Frustrated legislators: Splinter coalitions in the US Congress and their impact on legislative effectiveness" Authors: Samin Aref and Zachary Neal
- 12:40 PM - 1:00 PM: "Supreme Court from Networks I: a longitudinal analysis of judicial careers in a collegial setting" Author: Jan Majewski
- 1:00 PM - 1:20 PM: "International Environmental Agreement Ratification and Withdrawal Throughout Time: A Bipartite Network Analysis" Author: Selena Livas

1:30 PM (EST) - 2:50 PM (EST)

- Software for SNA Chair: Tony Johnson**

- 1:30 PM - 1:50 PM: "Backbone: An R package for extracting the backbone of bipartite projections" Authors: Zachary Neal, Rachel Domagalski and Bruce Sagan
- 1:50 PM - 2:10 PM: "Two Views, One Network: Net.Create To Support Network Analysis in Undergraduate Humanities Research" Authors: Kalani Craig and Matthew Landini
- 2:10 - 2:30 PM: "Estimation of Count-data Exponential Family Random Graph Models" Authors: Peng Huang and Carter Butts
- 2:30 - 2:50 PM: "Do Stochastic Actor Oriented Models Hide Degeneracy?: A Simulation Study" Authors: Alexander Murray-Watters and Carter Butts

- Words and Networks Chairs: Brandon Sepulvado & Jana Diesner**

- 1:30 PM - 1:50 PM: "Learning Social Networks from Text Data using Covariate Information" Authors: Xiaoyi Yang, Nynke Niezink and Rebecca Nugent
- 1:50 PM - 2:10 PM: "Comments on the Interplay of Relational States and Relational Events" Authors: Steve Borgatti and Daniel Halgin
- 2:10 - 2:30 PM: "Reliable Relation Extraction for Social Network Construction" Authors: Pingjing Yang, Janina Sarol, Ly Dinh and Jana Diesner
- 2:30 - 2:50 PM: "How European Union became an emotional topic: European election coverage in German media before and after the right-wing-populist anger" Author: Monika Verbalyte

3:00 PM (EST) - 4:20 PM (EST)

- Social Networks and Health: 1 Chairs: Lindsay Young & Kayla de la Haye**

- 3:00 PM - 3:20 PM: "Communication and structure in a collaborative community sport network" Author: Martha Barnes
- 3:20 PM - 3:40 PM: "Exploring the Social Environment Relative to Exercise Self-Efficacy within Group-Based High Intensity Functional Training Participants" Authors: Meg Patterson, Christina Amo, Tyler Prochnow and Katie Heinrich
- 3:40 - 4:00 PM: "Social brain volume is associated with the popularity perception accuracy of older adults" Authors: Haewon Hwang, Ekaterina Baldina and Yoosik Youm
- 4:00 PM - 4:20 PM: "Brain functional connectivity predicts negative relationships: the machine learning approach" Authors: Ekaterina Baldina, Hairin Kim, Jeanyung Chey and Yoosik Youm

- Social Change, Social Movements, and Social Justice Chair: Kim Glasgow**

- 3:00 PM - 3:20 PM: "Using Text Networks to Examine American Soldier's Perspectives on Racial Segregation during World War II" Authors: Edward Gitre, Chase Dawson, Brandon Kramer and Gizem Korkmaz
- 3:20 PM - 3:40 PM: "No young man should ever die": Engaging in networks of justice discourse after police shootings" Author: Kimberly Glasgow

4:30 PM (EST) - 6:10 PM (EST)

- Social Networks and Health: 2 Chairs: Lindsay Young & Kayla de la Haye**

- 4:30 PM - 4:50 PM: "The effect of school tobacco policies on the diffusion centrality of adolescent smoking: A school-level longitudinal study in 38 schools" Authors: Nora M elard, Adeline Grard and Vincent Lorant
- 4:50 PM - 5:10 PM: "The Role of Drug Use Homophily in Friendship Tie Formation among Latina seasonal workers" Authors: Mariano Kanamori, Cho-Hee Shrader, Juan Arroyo-Flores, Ariana Johnson, Edda Rodriguez, John Skvoretz, Devina Dave and Mark Williams
- 5:10 PM - 5:30 PM: "Social Integration in Women's Prison" Author: Julia Dillavou
- 5:30 PM - 5:50 PM: "Stronger through Agreement: The Role of Consensus in Social Influence on Work-related Stress" Authors: Shihan Li, Nynke M.D. Niezink and David Krackhardt
- 5:50 PM - 6:10 PM: "Is the study of network social capital and health still undertheorized?" Author: Valerie Haines

- Exploring Network Approaches in Targeting Policy Chair: Joseph Shaheen**

- 4:30 PM - 4:50 PM: "Targeting SETS of Nodes Based Upon Joint Centrality" Authors: Scott Feld and Alec McGail
- 4:50 PM - 5:10 PM: "Exploring network approaches to highlight trends and perspectives of international cooperation for the environment" Authors: Andreea Nita and Laurentiu Rozyłowicz
- 5:10 PM - 5:30 PM: "Targeting in Networks: A Complex Problem" Author: Joseph Shaheen
- 5:30 PM - 5:50 PM: "Social Capital and Surveillance Organizations' Procurement of Economic Capital" Author: Colin Burke

CONTACT

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NASN 2021: Wednesday Schedule

Wednesday, January 27, 2021

[>>>Back to NASN 2021](#)

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12:00 PM (EST) - 1:20 PM (EST)

- **Methods and Measures Chair: Kim Glasgow**
 - 12:00 PM - 12:20 PM: "Presidential Primary Success and Individual Contribution Networks: a Social Capital Approach" Authors: Lucas Morgan and William Frankenstein
 - 12:20 PM - 12:40 PM: "Rethinking one-mode projections" Author: David Schoch
 - 12:40 PM - 1:00 PM: "Measuring functional structure in production networks" Authors: Carolina Mattsson, Frank Takes, Eelke Heemskerk, Cees Diks, Gert Buiten, Peter Sloot and Albert Faber
 - 1:00 PM - 1:20 PM: "Network Analysis of Malware Stylometry Features for Attribution" Authors: Matthew Elder, Kathleen Carley, Timothy Davison, Iain Cruickshank and Tony Johnson
- **Social Media and Online Networks Chair: Alicia Barger**
 - 12:00 PM - 12:20 PM: "A Social Network of Russian "Kompromat" Author: Dmitry Zinoviev
 - 12:20 PM - 12:40 PM: "The Influencer Ecosystem in the 2018 U.S. Primaries" Author: Yotam Shmargad
 - 12:40 PM - 1:00 PM: "Social network analysis of NBA players based on Twitter" Authors: Guanhao Zhou and Will Frankenstein
 - 1:00 PM - 1:20 PM: "~~Topic modeling and temporal multipartite hypergraph analysis of the tweets of the NASN 2021 Grand Challenge~~" Author: ~~Moses Boudourides~~ Withdrawn

1:30 PM (EST) - 2:50 PM (EST)

- **Theory and Practice of Interventions to Stop Network Diffusion Chair: Scott Feld**
 - 1:30 PM - 1:50 PM: "Pathways to far-right radicalism in the age of Trump: How the internet and social media support white nationalism in the United States" Author: Marcus Mann
 - 1:50 - 2:10 PM: "How do Twitter Users Expose Others to External Social Media Content? An Exploratory Analysis of a #QAnon Social Media Network" Authors: Daniel Cunningham and Sean Everton
 - 2:10 - 2:30 PM: "Rewiring Social Networks Changes Culture Through Language: Evidence from Alt-Right Echo Chambers" Author: Matthew Yeaton
 - 2:30 PM - 2:50 PM: "Evaluating vaccination strategies through simulation" Authors: Alec McGail and Scott Feld
- **Social Media and Online Networks Chair: Alicia Barger**
 - 1:30 PM - 1:50 PM: "Societal Pressures, Safety, and Online Labeling - Investigating LGBTQ Self-Identification in an Online Space" Authors: Irissa Cisternino and Jason Jones
 - 1:50 PM - 2:10 PM: "An Experimental Study of Collective Action on Communication Networks" Authors: Gizem Korkmaz, Monica Capra, Chase Dawson, Neil Kattampallil, Brandon Kramer, Chris Kuhlman, Vicki Lancaster, Alyssa Mikytuck, Teja Pristavec and Fernando Vega-Redondo
 - 2:10 PM - 2:30 PM: "A node similarity measure based on local influence" Authors: Nadia Benakli, Ezra Halleck and Sandra Kingan
 - 2:30 PM - 2:50 PM: "A Longitudinal Analysis of International Collaboration on GitHub" Authors: Brandon Kramer, Gizem Korkmaz, Bayoán Santiago Calderón and Carol Robbins

3:00 PM (EST) - 4:10 PM (EST)

- **STEM Poster Session:** This session is a series of lightning talks put on by high school students who took the APL STEM Academy's Social Network Analysis class in Summer 2020. The students will present their capstone projects and there will be time for Q&A afterwards. Come by to support and encourage our nation's burgeoning STEM talent and see how they applied the techniques they learned in class to salient problems in today's world! To view STEM poster titles and author information, please [To view STEM poster titles and author information, please click here.](#)

3:00 PM (EST) - 4:40 PM (EST)

- **Poster Sessions:** Join us for a lightning-format poster session. You may also browse through poster recording and slides before the session. Authors will be on hand to chat and answer questions during the lightning round. [Prerecorded Poster Sessions and slide presentations are available for viewing here.](#)

4:30 PM (EST) - 6:10 PM (EST)

- **Network Interventions Chair: Tom Valente**
 - 4:30 PM - 4:50 PM: "Lifestyle coaches as a central professional in the health care network? Dynamic changes over time using a network analysis" Authors: Celeste E. van Rinsum, Sanne M.P.L. Gerards, Geert M. Rutten, Ien A.M. van de Goor, Stef P.J. Kremers and Liesbeth Mercken
 - 4:50 PM - 5:10 PM: "Unintended Tie Decay in Network Interventions: Mechanisms of Peer-Avoidance and Self-Withdrawal" Author: Weihua An
 - 5:10 PM - 5:30 PM: "The Challenge of Orchestrating Multi-level Governance Networks: Evidence from Forest Policy in Vietnam" Authors: Hamilton Matthew, Caleb Gallemore and Thu Thuy Pham
 - 5:30 PM - 5:50 PM: "Using a novel genetic algorithm to assess peer influence on willingness to use pre-exposure prophylaxis in networks of Black men who have sex with men" Authors: Kara Layne Johnson, Jennifer L. Walsh, Yuri A. Amirkhanian, John J. Borkowski and Nicole Bohme Carnegie
 - 5:50 PM - 6:10 PM: "Social Network Implementation for Evidence-based Autism Interventions" Authors: Elizabeth McGhee Hassrick, Jill Locke, Jonas Ventimiglia, David Mandell, Aubyn Stahmer and Connie Kasari

4:50 PM (EST) - 5:50 PM

- **Social Media and Online Networks Chair: Alicia Barger**
 - 4:50 PM - 5:10 PM: "Community Detection and Analysis of Github Collaboration Networks" Authors: Behnaz Moradi-Jamei, Brandon L. Kramer, J. Bayoan Santiago Calderon and Gizem Korkmaz
 - 5:10 PM - 5:30 PM: "Bipartite Coordinated Community Detection in Twitter Networks" Authors: Evan Williams, Dylan Blackwell, Laura Kurek and Nolan Phillips
 - 5:30 PM - 5:50 PM: "Community Detection in Attributed Online Networks Considering Interaction, Language, and Behavior" Author: Eric Curwin

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NASN 2021: Tuesday Schedule

Tuesday, January 26, 2021

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To join a session, click the category title in orange. Please note that all times are EST.

12:00 PM (EST) - 1:20 PM (EST)

- **Egocentric Networks 1** **Chair: Ann McCranie**
 - o 12:00 PM - 12:20 PM: "Would I Have Your Support? Family Network Features and Past Support Exchanges Associated with Anticipated Support for a Substance Use Problem" Authors: Kelly L. Markowski, Jeffrey A. Smith, G. Robin Gauthier and Sela R. Harcey
 - o 12:20 PM - 12:40 PM: "The impact of life trajectories on retirement. Socioeconomical difference in social support networks." Authors: Francisca Ortiz and Elisa Bellotti
 - o 12:40 PM - 1:00 PM: "The Dynamics of People who Inject Drugs' Personal Networks and Retention in Substance Use Disorder Treatment" Authors: Marisa Felsher, Karin Tobin, Carl Latkin and Oluwaseun Falade-Nwulia
 - o 1:00 PM - 1:20 PM: "Network Inference from Sampled Ego Network Data: The Problem of Measurement Error" Authors: Jeffrey Smith, Sela Harcey, Robin Gauthier and Kelly Markowski
- **Social Networks In Education 1** **Chair: Christian Vogel**
 - o 12:00 PM - 12:20 PM: "Is it worth the trouble? Diffusion of educational innovations through social networks" Authors: Elena Stasewitsch, Sofia Dokuka and Simone Kauffeld
 - o 12:20 PM - 12:40 PM: "Scaling-up higher education innovations with network organizations: First look at quantitative results for SNA of Competency-Based Education Network" Author: Bruce Haupt
 - o 12:40 PM - 1:00 PM: "Decentralisation of Education and the Influence of International Organisation" Author: Dina Abdelazeem
 - o 1:00 PM - 1:20 PM: "Social Network Analysis within a University Research Group Focused on Entrepreneurship" Authors: Elvia Castro, Sergio Ortiz, Rodrigo Peimbert and Juan Cabrera

1:30 PM (EST) - 2:50 PM (EST)

- **Egocentric Networks 2** **Chair: Ann Cranie**
 - o 1:30 PM - 1:50 PM: "Alter Loss Following a Major Health Event among Older LGBT Adults in the UCNets LGBT Oversample" Authors: Tara McKay, Matthew Facciani and Harry Barbee
 - o 1:50 PM - 2:10 PM: "The Influence of Contracting Chronic Comorbidity On Network Bridging Potential Among Older Adults: Evidence from NSHAP" Author: Tianyao Qu
 - o 2:10 PM - 2:30 PM: "Relational ambivalence and consistency in domestic violence. A personal network mixed method approach." Authors: Elisa Bellotti, Susanne Boethius and Dorottya Hoor
 - o 2:30 PM - 2:50 PM: "Network characteristics and polysubstance use: An examination of multiplex relationships" Authors: G. Robin Gauthier, Kelly Markowski, Jeffrey Smith and Sela Harcey
- **Social Networks in Education** **Chair: Christian Vogel**
 - o 1:30 PM - 1:50 PM: "Positive effect of networks' diversification on academic performance" Authors: Deniza Alieva, Otabek Abdubosytov and Akmal Alikhodjaev
 - o 1:50 PM - 2:10 PM: "Parents, Neighbors and Youth Crime" Authors: Carlos Diaz and Eleonora Patacchini
 - o 2:10 PM - 2:30 PM: "Leveraging Social Network Analysis to Capture Critical Consciousness within Educational Settings" Authors: Mariah Kornbluh, Mackenzie Hart and Jennifer Watling Neal
 - o 2:30 PM - 2:50 PM: "Star Coalescence: a new social mechanism to explain interorganizational recruitment" Author: Thomas Cowhitt

3:00 PM (EST) - 4:20 PM (EST)

- **SNA and Network Science Careers Panel:** We have a distinguished panel of speakers from a variety of settings to talk about career options involving networks and STEM careers.
 - o **Panelists:** Christian Vogel (JHU), Marc Smith (Social Media Research Foundation); Kate Coronges (Network Science Institute); Tony Johnson (Johns Hopkins Whiting School of Engineering); Ian McCulloh (Accenture Federal Services)
- **Funders Panel:** We have a distinguished panel of funder representatives to talk about research priorities and opportunities in network science and to encourage proposals that address those priorities.
 - o **Panelists:** Edward Palazzolo (Army Research Laboratory Army Research Office); Laurie Fenstermacher (Air Force Research Lab AFRL); Garrett Howardson (U.S. Army Research Institute for the Behavioral and Social Sciences); Rebecca Goolsby (Office of Naval Research Human & Bioengineered Systems); Laura Steckman (Trust and Influence Air Force Office of Scientific Research (AFOSR/RTA)); Alexander P. Wind (U.S. Army Research Institute for the Behavioral and Social Sciences)

4:30 PM (EST) - 5:10 PM (EST)

- **Egocentric 3.** **Chair: Ann McCranie**
 - o 4:30 PM - 4:50 PM: "Meso-level social forces for the stability of a national scientific community" Author: Alejandro Espinosa-Rada
 - o 4:50 PM - 5:10 PM: "Uses and Limitations of Dichotomous Aggregated Relational Data for Estimating Personal Network Size" Author: Derick Baum
- **Exploring Network Approaches in Targeting Policy** **Chair: Joseph Shaheen**
 - o 4:30 PM - 4:50 PM: "Peer review approach for individual performance evaluation in the organization" Authors: Alex Furman, Sofia Dokuka and Kate Furman
 - o 4:50 PM - 5:10 PM: "Project participation and career success" Authors: Shihan Li, Nynke M.D. Niezink and David Krackhardt

5:10 PM - 6:00 PM

- **Keynote: Dr. Kathleen Carley**
 - o Title: The Power of High Dimensional Networks

"Social network theorist SHOULD NOT be studying social networks." Yes you read that correctly. Come join Dr. Kathleen Carley as she probes how the earliest studies of social media communications seeded our understanding of structure and the power of even higher dimensional networks.

CONTACT

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NASN 2021: Thursday Schedule

Thursday, January 28, 2021

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To join a session, click the category title in orange. Please note that all times are EST.

12:00 PM (EST) - 1:20 PM (EST)

- **Beyond Contacts: tracking COVID-19 Social Networks I** **Chair: Viveca Pavon-Harr**
 - o 12:00 PM - 12:20 PM: "Some socio-structural glimpses into the spread dynamics of COVID-19 in Mexico" Authors: Juan-Felipe Nuñez-Espinoza
 - o 12:20 PM - 12:40 PM: "Integrating COVID Models at Different Scales for Infection Risk Estimation and Control Optimization" Authors: Collin Schwantes, Benno Lee, Benjamin Ortiz, Marjorie Willner and Viveca Pavon-Harr
 - o 12:40 PM - 1:00 PM: "Microscopic Markov Chain Approach for Studying Mobility Driven SARS-CoV-2 Transmission" Authors: Trevor Kent, Heather Patsolic, Nolan Philips, Kevin Kiernan, Ian McCulloh and Viveca Pavon-Harr
 - o 1:00 PM - 1:20 PM: "COVID-19 surveillance in Ottawa, Canada using social network and spatio-temporal analyses" Authors: Ann Jolly, Jacqueline Wilmore, Cameron McDermaid and Catherine Millar

1:30 PM (EST) - 2:50 PM (EST)

- **Beyond Contacts: tracking COVID-19 Social Networks II** **Chair: Viveca Pavon-Harr**
 - o 1:30 PM - 1:50 PM: "Examining the Effect of COVID-19 Diffusion on Spatial Networks to Understand Ethnoracial Disparities in Disease Outcomes" Authors: Loring Thomas, Peng Huang, Fan Yin, Xiaoshuang Iris Luo, Zack W. Almqvist, John R. Hipp and Carter T. Butts
 - o 1:50 PM - 2:10 PM: "Determinants of COVID-19 mortality across neighboring regions the United States" Authors: Sophia Lam, Tracey Zhai, Matthew Marcetich, James McCracken, Elizabeth Leeds Hohman and Viveca Pavon-Harr
 - o 2:10 PM - 2:30 PM: "Dormant Tie Reactivation as an Affiliative Coping Response to Stress During the COVID-19 Crisis" Authors: Seong Won Yang, Scott Soltis, Jason Ross and Giuseppe Labianca
 - o 2:30 PM - 2:50 PM: "Social Network Churn Within and Between Teams in Times of COVID-19" Authors: Y. Jasmine Wu, Arshya Srinivas, Brennan Antone, Leslie DeChurch and Noshir Contractor

3:00 PM (EST) - 4:40 PM (EST)

- **Beyond Contacts: tracking COVID-19 Social Networks III** **Chair: Viveca Pavon-Harr**
 - o 3:00 PM - 3:20 PM: "Collecting Network Data from a Vulnerable Population during the COVID-19 Pandemic: Reflections from Researchers and Participants" Authors: Sela Harcey, Robin Gauthier, Kelly L. Markowski and Jeffrey Smith
 - o 3:20 PM - 3:40 PM: "Personal Support Networks of Family Caregivers during COVID-19" Authors: David Kennedy and Esther Friedman
 - o 3:40 PM - 4:00 PM: "HOW CONTRACTING COVID-19 TOGETHER WITH CORE FAMILY MEMBERS MATTERS FOR ILLNESS SEVERITY: THE INTERVENING ROLE OF AGE" Authors: Xuewen Yan and Tianyao Qu
 - o 4:00 PM - 4:20 PM: "Developing friendships and social support through online gaming: A mixed methods analysis of online gaming network communication" Authors: Tyler Prochnow, Logan Hartnell and Megan Patterson
 - o 4:20 PM - 4:40 PM: "The COVID-19 Infodemic in online social networks: Twitter versus Facebook" Authors: Kai-Cheng Yang, Francesco Pierri, Pik-Mai Hui, David Axelrod, Christopher Torres-Lugo, John Bryden and Filippo Menczer

4:50 PM (EST) - 5:30 PM (EST)

- **Grand Challenge and Awards**

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NASN 2021: STEM Posters

Wednesday, January 27, 2021

[>>>Back to NASN 2021](#)

STEM Poster Presentations

3:00 PM (EST) - 4:10 PM (EST)

This session is a series of lightning talks put on by high school students who took the APL STEM Academy's Social Network Analysis class in Summer 2020. The students will present their capstone projects and there will be time for Q&A afterwards. Come by to support and encourage our nation's burgeoning STEM talent and see how they applied the techniques they learned in class to salient problems in today's world!

- *The Awareness Greta Thunberg has brought to Climate Change Around the World.*
 - Author: Aditi Kashyap
- *Determining the Most Influential Senator using Twitter Follower Data.*
 - Author: Andrew Nolan
- *The Relationship Between Anti-Mask Sentiment and COVID-19.*
 - Author: Anna Han
- *Factors Influencing Opinions on School Reopening.*
 - Author: Arjun Banerjee
- *A Group of Anti-Homelessness Organizations (Twitter).*
 - Author: Charush Minna
- *Spread of Misinformation: Hydroxychloroquine Cures COVID-19.*
 - Author: Cierra Dorton
- *Food Banks and Sponsors.*
 - Authors: Nishat Olayiwola and Esther Olatunji
- *Portrayal of Climate Change on Twitter.*
 - Author: Neha Narayan
- *US Senators' Twitter Following Network.*
 - Author: Praagna Kashyap

[CLICK HERE TO JOIN STEM POSTERS SESSION](#)

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NASN 2021: Posters

Wednesday, January 27, 2021

Poster Lightning Session

3:00 PM - 4:40 PM

Join us for a lightning-format poster session. You may also browse through poster recording and slides before the session. Authors will be on hand to chat and answer questions during the lightning round.

[TO JOIN THE POSTER LIGHTNING SESSION, CLICK HERE](#)

Poster Order	Title of Poster	Authors	Recording	Slides
1	<i>Sentiment Analysis of Twitter Technical and Financial Communities and Their Connective Actions in Stock Market Movement: Evidence from Pharmaceutical Industry During COVID-19</i>	Di Wu, Zhenning Xu and Ji Li	Link to Recording	Link to Slides
2	<i>Anatomy of COVID19 Tracing in the Digital Era: A Network Analysis of Contact Tracing Apps on Twitter</i>	Zhenning Xu, Di Wu and Yong Choi	Link to Recording	Link to Slides
3	<i>A Graph Signal Processing Approach to Analyzing COVID-19 Data</i>	Joseph Downs, Elizabeth Reilly, Anshu Saksena, Marisel Villafane-Delgado, Rahul Hingorani and Kevin Schultz	Link to Recording	Link to Slides
4	<i>Influence of Network Attributes on Concordance between Sentiment and Positive Aspects of Caregiving in Rare Disease Families</i>	Hannah Davidson, Melissa Zajdel, Laura Koehly and Raphael Heiberger	Link to Recording	Link to Slides
5	<i>Modeling Stimulant Use and Its Impact on the HIV Care Continuum via Agent Based Network Models</i>	Francis Lee, Aditya Khanna and John Schneider	Link to Recording	
6	<i>Social Network Influence on Syphilis Testing for Black Men Who Have Sex With Men</i>	Omeid Heidari, Karin Tobin, Fang-Ying Li and Carl Latkin		Link to Slides
7	<i>The Ego-Centric Social Networks of Aging Lesbian and Gay Individuals Living in Rural Communities: Influences on Identity and Health</i>	Marc Guest, Elizabeth Hunter, Nancy Schoenberg and Kate Eddens	Link to Recording	Link to Slides
8	<i>Body image concerns among college women: An egocentric network analysis</i>	Mandy Spadine, Taylor Graves-Boswell, Tyler Prochnow and Megan Patterson	Link to Recording	Link to Slides
9	<i>An egocentric analysis of adolescent-adult social support networks, attitudes towards violence and retaliation, and violence exposure</i>	Alexander T. Riley, Gabrielle Corona, Elizabeth Miller, Kathleen M. Carley and Alison J. Culyba	Link to Recording	Link to Slides
10	<i>Improving Food and Nutrition in the CARICOM: Enhancing Nevis's School Meals Program through a Local and Sustainable Food Procurement System</i>	Oacia Fair and Gordon Hickey		Link to Slides
11	<i>Know-how or Know-who: Sociocultural Upbringing and Organizational Social Networks (Poster Presentation)</i>	Jacqueline Tilton and Kristie Moergen	Link to Recording	Link to Slides
12	<i>Effects of replacing directors in the board interlocking networks on firm performance in the stock market</i>	Jing Tang and Scott Feld	Link to Recording	Link to Slides
13	<i>Examining Inter-firm Relationships in the Mobile Phone Industry</i>	Zhenning Xu, Edward Ramirez, Gary Frankwick and Mohsen Attaran	Link to Recording	Link to Slides
14	<i>Network Dynamics of Scientific Knowledge Reveal the Decline of the Conceptual Core</i>	Kara Kedrick, Ekaterina Levitskaya and Russell Funk	Link to Recording	Link to Slides
15	<i>Statistical properties and measures of country liner shipping networks</i> Withdrawn	Daria Ulybina and William Frankenstein		
16	<i>Mapping social perceptions of dry tropical forest degradation in Jalisco, Mexico.</i>	Noemí García, Alfonso Langle and Julieta Rosell	Link to Recording	Link to Slides

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