Ryan J. Gallagher

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Education

Northeastern University Boston, MA

Ph.D. Network Science, Outstanding Graduate Student Award in Research Sep. 2017-Aug. 2022 (Expected)

Committee: Brooke Foucault Welles, David Lazer, David Smith, Sandra González-Bailón

University of Vermont Burlington, VT

M.S. MATHEMATICS, Outstanding Masters Thesis Honorable Mention Aug. 2015-May 2017

Advisors: Christopher M. Danforth, Peter Sheridan Dodds

Graduate Certificate: Complex Systems

University of Connecticut Storrs, CT

B.A. MATHEMATICS, Summa Cum Laude Aug. 2011-May 2015

Minor: Statistics

Professional Appointments _____

Research Assistant Boston, MA

Aug. 2017-PRESENT NETWORK SCIENCE INSTITUTE, NORTHEASTERN UNIVERSITY

Engineering Intern Boston, MA

DATA SCIENCE - APPLIED SCIENCES, TWITTER May 2022-PRESENT

Graduate Student Affiliate Remote

CENTER FOR INFORMATION, TECHNOLOGY, AND PUBLIC LIFE, UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL Aug. 2021-PRESENT

Core Data Science Intern Menlo Park, CA Sep. 2019-Nov. 2019 CORE DATA SCIENCE, FACEBOOK

Visiting Research Assistant Los Angeles, CA

INFORMATION SCIENCES INSTITUTE, UNIVERSITY OF SOUTHERN CALIFORNIA

Jun. 2016/2017-Aug. 2016/2017 **Research Assistant**

Burlington, VT VERMONT COMPLEX SYSTEMS CENTER, UNIVERSITY OF VERMONT Aug. 2015-Aug. 2017

Publications

PREPRINTS

Say Their Names: Resurgence in Collective Attention Toward Black Victims of Fatal Police Violence Following the Death of George Floyd

HENRY WU, RYAN J. GALLAGHER, THAYER ALSHAABI, JANE L. ADAMS, JOSH R. MINOT, MICHAEL V. ARNOLD, BROOKE FOUCAULT WELLES, RANDALL HARP, PETER SHERIDAN DODDS, CHRISTOPHER M. DANFORTH. (2021). arXiv preprint under revision at Biq Data & Society.

PEER-REVIEWED ARTICLES

(Mis)alignment Between Stances Expressed in Social Media Data and Public Opinion Surveys

KENNETH JOSEPH, SARAH SHUGARS, RYAN J. GALLAGHER, JON GREEN, ALEXI QUINTANA MATHÉ, DAVID LAZER. (2021). IN PROCEEDINGS OF The 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP).

Sustained Online Amplification of COVID-19 Elites in the United States

RYAN J. GALLAGHER, LARISSA DOROSHENKO, SARAH SHUGARS, DAVID LAZER, BROOKE FOUCAULT WELLES. (2021). Social Media + Society, 7(2).

Pandemics, Protests, and Publics: Demographic Activity and Engagement on Twitter in 2020

SARAH SHUGARS, ADINA GITOMER, STEFAN MCCABE, RYAN J. GALLAGHER, KENNETH JOSEPH, NIR GRINBERG, LARISSA DOROSHENKO, BROOKE FOUCAULT WELLES, DAVID LAZER. (2021). Journal of Quantitative Description: Digital Media, 1.

A Clarified Typology of Core-Periphery Structure in Networks

RYAN J. GALLAGHER, JEAN-GABRIEL YOUNG, BROOKE FOUCAULT WELLES. (2021). Science Advances, 7:EABC9800.

Generalized Word Shift Graphs: A Method for Visualizing and Explaining Pairwise Comparisons Between Texts

RYAN J. GALLAGHER, MORGAN R. FRANK, LEWIS MITCHELL, AARON J. SCHWARTZ, ANDREW J. REAGAN, CHRISTOPHER M. DANFORTH, PETER SHERIDAN DODDS. (2021). *EPJ Data Science*, 10(4).

Who Says What with Whom: Using Bi-Spectral Clustering to Organize and Analyze Social Media Protest Networks

Kenneth Joseph, Ryan J. Gallagher, Brooke Foucault Welles. (2020). Computational Communication Research, 2(2):153-174.

Reclaiming Stigmatized Narratives: The Networked Disclosure Landscape of #MeToo

RYAN J. GALLAGHER, ELIZABETH STOWELL, ANDREA G. PARKER, BROOKE FOUCAULT WELLES. (2019). *Proceedings of the ACM: Human-Computer Interaction (PACM: HCI)*, 3(CSCW). BEST PAPER HONORABLE MENTION AWARD AND FRANK PRIZE IN PUBLIC INTEREST COMMUNICATIONS FINALIST.

Divergent Discourse Between Protests and Counter-Protests: #BlackLivesMatter and #AllLivesMatter

RYAN J. GALLAGHER, ANDREW J. REAGAN, CHRISTOPHER M. DANFORTH, PETER SHERIDAN DODDS. (2018). PLOS One, 13(4):E0195644.

Anchored Correlation Explanation: Topic Modeling with Minimal Domain Knowledge

RYAN J. GALLAGHER, KYLE REING, DAVID KALE, GREG VER STEEG. (2017). *Transactions of the Association for Computational Linguistics (TACL)*. 5:529–542.

Non-Peer-Reviewed Reports

COVID-19 Fake News on Twitter

David Lazer, Damain J. Ruck, Alexi Quintana, Sarah Shugars, Kenneth Joseph, Nir Grinberg, **Ryan J. Gallagher**, Luke Horgan, Adina Gitomer, Aleszu Bajak, Matthew A. Baum, Katherine Ognyanova, Hong Quo, William R. Hobbs, Stefan McCabe, Jon Green. (2020). *The State of the Nation: A 50-State COVID-19 Survey* by the COVID-19 Consortium for Understanding the Public's Policy Preferences Across States.

Research Funding	
Measuring Affective Dynamics in Polarized Publics and Counterpublics Co-PI, Northeastern University Lab for Text, Maps, and Networks Seedling Grant	\$1,580 Nov. 2019
Presentations	
Invited Talks	
The Network Structure of Online Amplification	Online
NETWORK STRUCTURE SATELLITE SYMPOSIUM: THE CAUSES AND EFFECTS OF SOCIAL PHENOMENA, NETWORKS 2021	Jun. 2021
Word Shift Graphs: A General Method for Visualizing and Explaining Pairwise	Online
Comparisons Between Texts	
Data Stories 2021, Central European University	May 2021
The Network Structure of Online Amplification	Online
MICHIGAN INTERACTIVE AND SOCIAL COMPUTING GROUP, SCHOOL OF INFORMATION, UNIVERSITY OF MICHIGAN	Feb. 2021
The Network Structure of Online Amplification	Online
COMPUTER SCIENCE SEMINAR SERIES, COMPUTER SCIENCE DEPARTMENT, UNION COLLEGE	Feb. 2021
Word Shift Graphs: A General Method for Visualizing and Explaining Pairwise	0.1:
Comparisons Between Texts	Online
STORY TIME, COMPUTATIONAL STORY LAB, UNIVERSITY OF VERMONT	Jul. 2020
The Topic Topology of "Slacktivist" Networks	Indianapolis, IN
Information, Self-Organizing Dynamics and Synchronization on Networks Satellite Symposium, NetSci 2017	Jun. 2017

Panels

Emerging Digital Data Tools	Online
The Digital Data Conference (D2C)	Apr. 2022
Creating Open Source Software as Part of an Academic Career	Online
SUMMER INSTITUTE IN COMPUTATIONAL SOCIAL SCIENCE (SICSS) FESTIVAL	Jun. 2020

CONTRIBUTED TALKS

Charting Network Maps of Discursive Terrains: How to Triangulate Information	Online
Pollution and Fractured Ecologies Online	
Networks 2021 (Joint NetSci and Sunbelt Conference)	Jul. 2021
Reclaiming Stigmatized Narratives: The Networked Disclosure Landscape of #MeToo	Online
International Conference on Computational Social Science (IC2S2) 2020, MIT	Jul. 2020
Diversity of Core-Periphery Structure in Real Networks	Online
THIRD NORTHEAST REGIONAL CONFERENCE ON COMPLEX SYSTEMS (NERCCS) 2020	Apr. 2020
Core-Periphery Decomposition of Online Social Protest Networks	Montreal, QC
SUNBELT 2019	Jun. 2019
The Networked Disclosure Landscape of #MeToo	Burlington, VT
NETSCI 2019, UNIVERSITY OF VERMONT	May 2019
Mischaracterization of Core-Periphery Structure in Complex Networks	Burlington, VT
NETSCI 2019, UNIVERSITY OF VERMONT	May 2019
Core-Periphery Decomposition of Networked Publics and Counterpublics	Washington D.C.
69TH ANNUAL INTERNATIONAL COMMUNICATION ASSOCIATION (ICA) CONFERENCE	May 2019
Word Shift: A General Method for Visualizing and Explaining Pairwise Comparisons	Seattle, WA
Between Texts	Seattle, WA
Text as Data 2018, University of Washington	Sep. 2018
Anchored Correlation Explanation: Topic Modeling with Minimal Domain Knowledge	New Orleans, LA
NORTH AMERICAN CHAPTER OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS (NAACL) 2018	Jun. 2018
Anchored Correlation Explanation: Topic Modeling with Minimal Domain Knowledge	Princeton, NJ
Text as Data 2017, Princeton University	Oct. 2017
Honors & Awards	
Honors	San Francisco CA
HONORS 2022 Twitter Developer Insider, Twitter	San Francisco, CA
HONORS 2022 Twitter Developer Insider, Twitter 2021 Graduate Student Affiliate, Center for Information, Technology, and Public Life (CITAP)	Chapel Hill, NC
HONORS 2022 Twitter Developer Insider, Twitter 2021 Graduate Student Affiliate, Center for Information, Technology, and Public Life (CITAP) 2018 Invited Participant, Complex Networks Winter Workshop (CNWW)	Chapel Hill, NC Québec City, QC
HONORS 2022 Twitter Developer Insider, Twitter 2021 Graduate Student Affiliate, Center for Information, Technology, and Public Life (CITAP) 2018 Invited Participant, Complex Networks Winter Workshop (CNWW) 2018 Invited Participant, Summer Institute in Computational Social Science (SICSS), Duke University	Chapel Hill, NC Québec City, QC Durham, NC
HONORS 2022 Twitter Developer Insider, Twitter 2021 Graduate Student Affiliate, Center for Information, Technology, and Public Life (CITAP) 2018 Invited Participant, Complex Networks Winter Workshop (CNWW)	Chapel Hill, NC Québec City, QC
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HONORS 2022 Twitter Developer Insider, Twitter 2021 Graduate Student Affiliate, Center for Information, Technology, and Public Life (CITAP) 2018 Invited Participant, Complex Networks Winter Workshop (CNWW) 2018 Invited Participant, Summer Institute in Computational Social Science (SICSS), Duke University 2015 Honorary Inductee, Pi Mu Epsilon Mathematics Honor Society, University of Connecticut AWARDS 2022 Outstanding Graduate Student Award in Research, Northeastern University 2021 frank Prize in Public Interest Communications, Center for Public Interest Communications 2019 Best Paper Honorable Mention, CSCW 2019, Association for Computing Machinery (ACM) 2017 Outstanding Masters Thesis Honorable Mention, University of Vermont 2015 Outstanding Presentation Award, Mathematical Association of America, Joint Math Meeting 2015 SCHOLARSHIPS 2017 Nam Sang Kil Scholarship in Mathematics, Department of Mathematics, University of Vermont 2014 Bernard Sippin '52 Scholarship, Department of Mathematics, University of Connecticut 2014 Orange Scholarship, The Homer Fund, Home Depot	Chapel Hill, NC Québec City, QC Durham, NC Storrs, CT Boston, MA Gainesville, FL Austin, TX Burlington, VT San Antonio, TX Burlington, VT Storrs, CT
HONORS 2022 Twitter Developer Insider, Twitter 2021 Graduate Student Affiliate, Center for Information, Technology, and Public Life (CITAP) 2018 Invited Participant, Complex Networks Winter Workshop (CNWW) 2018 Invited Participant, Summer Institute in Computational Social Science (SICSS), Duke University 2015 Honorary Inductee, Pi Mu Epsilon Mathematics Honor Society, University of Connecticut AWARDS 2022 Outstanding Graduate Student Award in Research, Northeastern University 2021 frank Prize in Public Interest Communications, Center for Public Interest Communications 2019 Best Paper Honorable Mention, CSCW 2019, Association for Computing Machinery (ACM) 2017 Outstanding Masters Thesis Honorable Mention, University of Vermont 2015 Outstanding Presentation Award, Mathematical Association of America, Joint Math Meeting 2015 SCHOLARSHIPS 2017 Nam Sang Kil Scholarship in Mathematics, Department of Mathematics, University of Vermont 2014 Bernard Sippin '52 Scholarship, Department of Mathematics, University of Connecticut	Chapel Hill, NC Québec City, QC Durham, NC Storrs, CT Boston, MA Gainesville, FL Austin, TX Burlington, VT San Antonio, TX Burlington, VT Storrs, CT

OPEN SOURCE SOFTWARE

Core DeveloperBoston, MAFOCALEVENTS: PYTHON, GITHUB.COM/RYANJGALLAGHER/FOCALEVENTSAug. 2021-PRESENTCore DeveloperBoston, MAWORD SHIFTERATOR: PYTHON, GITHUB.COM/RYANJGALLAGHER/SHIFTERATORMay 2018-PRESENT

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Core Developer Los Angeles, CA

ANCHORED COREX TOPIC MODEL: PYTHON, GITHUB.COM/GREGVERSTEEG/COREX_TOPIC

CONFERENCES, INSTITUTES, AND WORKSHOPS

Founder and Co-Organizer Online

NETWORKED JUSTICE SATELLITE SYMPOSIUM, NETWORKS 2021 Dec. 2020-Jul. 2021 **Co-Organizer** Boston, MA

SUMMER INSTITUTE IN COMPUTATIONAL SOCIAL SCIENCE (SICSS) 2019 PARTNER SITE Jun. 2018-Dec. 2019

Co-Chair Burlington, VT

SATELLITES, SCHOOLS, AND POSTERS, NETSCI 2019 Jun. 2018-May 2019

Co-Organizer Boston, MA

Jun. 2018-Mar. 2019 Women's, Gender, and Sexuality Studies (WGSS) Symposium 2019: Women and Resilience **Co-Organizer** Boston, MA

CAUCUS FOR WOMEN IN NETWORK SCIENCE (WINS), COMPLENET 2018 Jan. 2018-Mar. 2018

DEPARTMENTAL SERVICE

President Boston, MA May 2019-PRESENT NETWORK SCIENCE GRADUATE STUDENT ASSOCIATION, NORTHEASTERN UNIVERSITY **Graduate Student Representative** Boston, MA

Admissions Committee, Network Science PhD Program, Northeastern University Jan. 2020–Apr. 2020

Vice President Boston, MA NETWORK SCIENCE GRADUATE STUDENT ASSOCIATION, NORTHEASTERN UNIVERSITY May 2018-May 2019

Organizer Boston, MA

NETWORK SCIENCE INSTITUTE JOURNAL CLUB, NORTHEASTERN UNIVERSITY Jan. 2018-Dec. 2018

PROFESSIONAL ORGANIZATIONS

NetSci **Network Science Society** 2017-PRESENT ICA International Communication Association 2018-PRESENT AoIR **Association of Internet Researchers** 2020-PRESENT ACM **Association for Computing Machinery** 2020-PRESENT

JOURNAL PEER REVIEW

NEW MEDIA & SOCIETY SOCIAL MEDIA + SOCIETY THE INTERNATIONAL JOURNAL OF PRESS/POLITICS

NATURE COMMUNICATIONS TRANSACTIONS OF CHI AMERICAN SOCIOLOGICAL REVIEW

MOBILIZATION JOURNAL OF COMPLEX NETWORKS SIGNS: JOURNAL OF WOMEN IN CULTURE AND SOCIETY

PLOS ONE Socius

CONFERENCE PEER REVIEW

INTERNATIONAL COMMUNICATION ASSOCIATION (ICA) INTERNATIONAL AAAI CONF. ON WEB AND SOCIAL MEDIA (ICWSM) ACM CONF. ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI) ACM CONF. ON COMPUTER-SUPPORTED COOPERATIVE WORK (CSCW)

ACM WEB SCIENCE CONFERENCE (WEBSCI)

Teaching ____

INSTRUCTION

Data Science for the Social Sciences

Boston, MA

COLLEGE OF SOCIAL SCIENCES AND HUMANITIES, NORTHEASTERN UNIVERSITY

Sep. 2021-Dec. 2021

Jun. 2017-PRESENT

Fall 2021 (Instructor of record)

Summer Institute in Computational Social Science Boston Partner Site

Cambridge, MA

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Jun. 2018

Summer 2019

Fundamentals of Calculus I Burlington, VT DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF VERMONT Aug. 2016-Dec. 2016 Fall 2016 (Instructor of record) **Applications of Finite Math** Burlington, VT DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF VERMONT Aug. 2015-May 2015 Fall 2015, Spring 2016 (Instructor of record) **GUEST LECTURES Mesoscale Network Structures of Online Activism** Online. MACHINE LEARNING AND SOCIETY, UNIVERSITY AT BUFFALO Apr. 2021 Class of Kenneth Joseph, Spring 2021 **Comparing Text as Data with Word Shift Graphs** Online PRINCIPLES OF COMPLEX SYSTEMS VOL. 2, UNIVERSITY OF VERMONT Apr. 2021 Class of Peter Dodds, Spring 2021 **Mesoscale Network Structures of Online Activism** Online COMMUNICATION AND SOCIAL NETWORKS, PURDUE UNIVERSITY Mar. 2021 Class of Jeremy Foote, Spring 2021 Online **Text as Data and Sentiment Analysis** TURNING DATA INTO INSIGHT AND STORIES, PURDUE UNIVERSITY Mar. 2021 Class of Jeremy Foote, Spring 2021 **Text as Data and Sentiment Analysis** Online QUANTITATIVE TEXT ANALYSIS, UNIVERSITY COLLEGE DUBLIN Mar. 2021 Class of Martijn Schoonvelde, Spring 2021 **Text as Data and Computational Grounded Theory** Online Introduction to Qualitative Methods, Sciences Po Paris Mar. 2021 Class of Jen Schradie, Spring 2021 **Mesoscale Network Structure and Stochastic Block Models** Online STRUCTURE AND DYNAMICS OF COMPLEX NETWORKS, CENTRAL EUROPEAN UNIVERSITY Jan. 2021 Class of Federico Battiston, Spring 2021 **Mesoscale Network Structure and Stochastic Block Models** Online NETWORK SCIENCE & ANALYSIS, UNIVERSITY OF PITTSBURGH Oct. 2020 Class of Morgan Frank, Fall 2020 **Research Ethics and Network Science** Online NETWORK SCIENCE INSTITUTE GRADUATE STUDENT BOOTCAMP 2019, NORTHEASTERN UNIVERSITY Aug. 2020 Organized by the Network Science Institute GSA, Fall 2020 **TEACHING ASSISTANCE Social Networks** Boston, MA

COMMUNICATION STUDIES DEPARTMENT, NORTHEASTERN UNIVERSITY Jan. 2020-May 2020

Class of Brooke Foucault Welles, Spring 2020

Principles of Complex Systems Burlington, VT DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF VERMONT Aug. 2016-Dec. 2016

Class of Peter Dodds, Fall 2016