

Ryan J. Gallagher

NETWORK SCIENCE PH.D. STUDENT MERGING TEXT AND NETWORKS FOR COMPUTATIONAL SOCIAL SCIENCE
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Education

Northeastern University

PH.D. NETWORK SCIENCE

Advisor: Prof. Brooke Foucault Welles

Boston, MA

Sep. 2017 – PRESENT

University of Vermont

M.S. MATHEMATICS, *Outstanding Masters Thesis Honorable Mention*

Advisors: Prof. Christopher M. Danforth, Prof. Peter Sheridan Dodds

Graduate Certificate: Complex Systems

Burlington, VT

Aug. 2015 – May 2017

University of Connecticut

B.A. MATHEMATICS, *Summa Cum Laude*

Minor: Statistics

Storrs, CT

Aug. 2011 – May 2015

Experience

Research Assistant

NETWORK SCIENCE INSTITUTE, NORTHEASTERN UNIVERSITY

Core Data Science Intern

CORE DATA SCIENCE, FACEBOOK

Visiting Research Assistant

INFORMATION SCIENCES INSTITUTE, UNIVERSITY OF SOUTHERN CALIFORNIA

Research Assistant

VERMONT COMPLEX SYSTEMS CENTER, UNIVERSITY OF VERMONT

Boston, MA

Aug. 2017 – PRESENT

Menlo Park, CA

Sep. 2019–Nov. 2019

Los Angeles, CA

Jun. 2016/2017 – Aug. 2016/2017

Burlington, VT

Aug. 2015 – Aug. 2017

Publications

PREPRINTS

Sustained Amplification of COVID-19 Elites in the United States

RYAN J. GALLAGHER, LARISSA DOROSHENKO, SARAH SHUGARS, DAVID LAZER, BROOKE FOUCAULT WELLES. ARXIV PREPRINT 2009.07255, 2020.

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. ARXIV PREPRINT 2008.02250, 2020.

A Clarified Typology of Core-Periphery Structure in Networks

RYAN J. GALLAGHER, JEAN-GABRIEL YOUNG, BROOKE FOUCAULT WELLES. ARXIV PREPRINT 2005.10191, 2020.

JOURNAL ARTICLES

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. FORTHCOMING IN *Computational Communication Research*, 2020.

Reclaiming Stigmatized Narratives: The Networked Disclosure Landscape of #MeToo

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

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

RYAN J. GALLAGHER, ANDREW J. REAGAN, CHRISTOPHER M. DANFORTH, PETER SHREIDAN DODDS. *PLoS ONE*, 13(4):E0195644, 2018.

Anchored Correlation Explanation: Topic Modeling with Minimal Domain Knowledge

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

Research Funding

Measuring Affective Dynamics in Polarized Publics and Counterpublics

\$1,580

Co-PI, NORTHEASTERN UNIVERSITY LAB FOR TEXT, MAPS, AND NETWORKS SEEDLING GRANT

Nov. 2019

Presentations

TALKS

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

Burlington, VT

STORY TIME, COMPUTATIONAL STORY LAB, UNIVERSITY OF VERMONT

Jul. 2020

Reclaiming Stigmatized Narratives: The Networked Disclosure Landscape of #MeToo

Cambridge, MA

INTERNATIONAL CONFERENCE ON COMPUTATIONAL SOCIAL SCIENCE (IC2S2) 2020, MIT

Jul. 2020

Diversity of Core-Periphery Structure in Real Networks

Buffalo, NY

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 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

The Topic Topology of “Slackivist” Networks

Indianapolis, IN

INFORMATION, SELF-ORGANIZING DYNAMICS AND SYNCHRONIZATION ON NETWORKS SATELLITE SYMPOSIUM, NETSCI 2017

Jun. 2017

Honors & Awards

HONORS

2019 **Invited Participant**, 1 Year Until 2020: US Election Research Workshop, Facebook

Menlo Park, CA

2018 **Invited Participant**, Complex Networks Winter Workshop (CNWW)

Québec City, QC

2018 **Invited Participant**, Summer Institute in Computational Social Science (SICSS), Duke University

Durham, NC

2017 **Outstanding Masters Thesis Honorable Mention**, University of Vermont

Burlington, VT

2015 **Honorary Inductee**, Pi Mu Epsilon Mathematics Honor Society, University of Connecticut

Storrs, CT

AWARDS

2019	Best Paper Honorable Mention , CSCW 2019, Association for Computing Machinery (ACM)	Austin, TX
2019	NULab Travel Grant , NULab for Texts, Maps, and Networks, Northeastern University	Boston, MA
2019	NetSI Travel Grant , Network Science Institute, Northeastern University	Boston, MA
2018	NetSI Travel Grant , Network Science Institute, Northeastern University	Boston, MA
2017	SYNS Travel Grant , Society of Young Network Scientists, NetSci 2017	Indianapolis, IN
2015	Outstanding Presentation Award , Mathematical Association of America, Joint Math Meeting 2015	San Antonio, TX
2015	MAA Travel Grant , Mathematical Association of America, Joint Math Meeting 2015	San Antonio, TX
2014	MAA Travel Grant , Mathematical Association of America, Joint Math Meeting 2014	Baltimore, MD

SCHOLARSHIPS

2017	Nam Sang Kil Scholarship in Mathematics , Department of Mathematics, University of Vermont	Burlington, VT
2014	Bernard Sippin '52 Scholarship , Department of Mathematics, University of Connecticut	Storrs, CT
2014	Orange Scholarship , The Homer Fund, Home Depot	Storrs, CT

Professional Service

OPEN SOURCE SOFTWARE

Core Developer

WORD SHIFTERATOR: PYTHON, GITHUB.COM/RYANJGALLAGHER/SHIFTERATOR

Boston, MA

May 2018 – PRESENT

Core Developer

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

Los Angeles, CA

Jun. 2017 – PRESENT

CONFERENCES, INSTITUTES, AND WORKSHOPS

Program Committee

12TH AMC CONFERENCE ON WEB SCIENCE 2020 (WEBSci)

Southampton, UK

Dec. 2019 – Jul. 2020

Co-Organizer

SUMMER INSTITUTE IN COMPUTATIONAL SOCIAL SCIENCE (SICSS) 2019 PARTNER SITE

Boston, MA

Jun. 2018 – Dec. 2019

Co-Chair

SATELLITES, SCHOOLS, AND POSTERS, NETSCI 2019

Burlington, VT

Jun. 2018 – May 2019

Co-Organizer

WOMEN'S, GENDER, AND SEXUALITY STUDIES (WGSS) SYMPOSIUM 2019: WOMEN AND RESILIENCE

Boston, MA

Jun. 2018 – Mar. 2019

Co-Organizer

CAUCUS FOR WOMEN IN NETWORK SCIENCE (WINS), COMPLENET 2018

Boston, MA

Jan. 2018 – Mar. 2018

DEPARTMENTAL SERVICE

President

NETWORK SCIENCE GRADUATE STUDENT ASSOCIATION, NORTHEASTERN UNIVERSITY

Boston, MA

May 2019 – PRESENT

Graduate Student Representative

ADMISSIONS COMMITTEE, NETWORK SCIENCE PHD PROGRAM, NORTHEASTERN UNIVERSITY

Boston, MA

Jan. 2020 – Apr. 2020

Vice President

NETWORK SCIENCE GRADUATE STUDENT ASSOCIATION, NORTHEASTERN UNIVERSITY

Boston, MA

May 2018 – May 2019

Organizer

NETWORK SCIENCE INSTITUTE JOURNAL CLUB, NORTHEASTERN UNIVERSITY

Boston, MA

Jan. 2018 – Dec. 2018

Co-Organizer

AM I A (ALL MATH IS APPLIED) SEMINAR, UNIVERSITY OF VERMONT

Burlington, VT

Aug. 2016 – May 2017

PEER REVIEW

SOCIAL MEDIA + SOCIETY

NEW MEDIA & SOCIETY

INTERNATIONAL COMMUNICATION ASSOCIATION

TRANSACTIONS OF CHI (TOCHI)

AMERICAN SOCIOLOGICAL REVIEW

SIGNS: JOURNAL OF WOMEN IN CULTURE AND SOCIETY

JOURNAL OF COMPLEX NETWORKS

SOCIAL NETWORKS ANALYSIS AND MINING

INT. CONF. ON WEB AND SOCIAL MEDIA (ICWSM)

MOBILIZATION

SOCIUS

PLoS ONE

WEBSCI

Teaching

Teaching Assistant

COMMUNICATION STUDIES DEPARTMENT, NORTHEASTERN UNIVERSITY

Spring 2020 COMM 2105 Social Networks

Boston, MA

Jan. 2020 – Apr. 2020

Instructor

DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF VERMONT

Fall 2016 MATH19 Fundamentals of Calculus I

Spring 2016 MATH17 Applications of Finite Math

Fall 2015 MATH17 Applications of Finite Math

Burlington, VT

Aug. 2015 – Dec. 2016

Help Session Tutor

DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF VERMONT

Algebra, Precalculus, Finite Math, Calculus I, Calculus II

Burlington, VT

Aug. 2015 – May 2017

Course Grader

DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF VERMONT

Fall 2016 CSYS300 Principles of Complex Systems

Burlington, VT

Aug. 2016 – Dec. 2016

Supplemental Instruction Leader

UConn Academic Achievement Center, UNIVERSITY OF CONNECTICUT

Spring 2015 MATH1132Q Calculus II

Storrs, CT

Jan. 2015 – May 2015