

BEN GIBSON

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POSITIONS

- 2020-Pres. **Associate Sociologist**, RAND Corp.
- 2018-2020 **Postdoctoral Fellow**, Oak Ridge Associated Universities.
Lab: Cyber and Networked Systems
PI: ✉ [Norbou Buchler](#)
- 2012-2018 **Graduate Student Researcher**, UC Irvine Department of Sociology.
Lab: Networks, Computation, and Social Dynamics
PI: ✉ [Carter T. Butts](#)
- 2010-2012 **Teaching/Research Assistant**, UAB Department of Sociology.
Labs: Center for Social Medicine, Enhancing Minority Participation in Clinical Trials
Courses Taught: Statistics, Methods

EDUCATION

- 2018 **Ph.D. Sociology**, University of California, Irvine
Thesis: *Frontier Problems in Modeling Dynamic Social Systems*
- 2017 **M.A. Demographic and Social Analysis**, University of California, Irvine
- 2012 **M.A. Sociology**, University of Alabama at Birmingham
- 2010 **B.A. Sociology**, University of Alabama at Birmingham

PUBLICATIONS

Journal Articles

- 2022 **Ben Gibson** and Carter T. Butts. "The Effect of Temporal Adjustments on Dynamic Network Models." Accepted to *Social Networks*.
- 2021 **Ben Gibson**, Norbou Buchler, Blaine Hoffman, and Claire Le Fleur. "Endogeneity and Permeation in an Organizational Communication Network." *Social Networks*.
- 2021 Claire Le Fleur, Blaine Hoffman, **Ben Gibson**, and Norbou Buchler. "Team Performance in a Series of Regional and National US Cybersecurity Defense Competitions: Generalizable Effects of Training and Functional Role Specialization." *Computers and Security*.
- 2020 Sarah C. Vos, Jeannette Sutton, **Ben Gibson**, and Carter T. Butts. "#Ebola: Emergency Risk Messages on Social Media." *Health Security*.
- 2020 **Ben Gibson**, Sarah C. Vos, Jeannette Sutton, and Carter T. Butts. "Practical Imputation of Follower Counts of Public Health Twitter Accounts." *Sociological Methods & Research*.
- 2019 Sutton, Jeannette N.; Scott L. Renshaw; Sarah Vos; Michele K. Olson; Robert Prestley; **Ben Gibson**; Carter T. Butts. "Getting the Word Out, Rain or Shine: The Impact of Message Features and Hazard Context on Message Passing Online." *Weather, Climate, and Society*. DOI: [10.1175/WCAS-D-19-0021.1](https://doi.org/10.1175/WCAS-D-19-0021.1)
- 2019 **Ben Gibson**, Norbou Buchler, Claire le Fleur, and Blaine Hoffman. "Participation Shifts Predict Long-Tailed Degree Distributions in a Communication Network." *PLoS One*. DOI: [10.1371/journal.pone.0217240](https://doi.org/10.1371/journal.pone.0217240)
- 2019 Sutton, Jeannette, Sarah Vos, **Ben Gibson**, and Carter T. Butts. "Celebrity Cancer on Twitter: Mapping a Novel Opportunity for Cancer Prevention" *Cancer Control*. DOI: [10.1177/1073274819825826](https://doi.org/10.1177/1073274819825826)
- 2018 Vos, S. C., Sutton, J., Yu, Y., Renshaw, S., Olson, M. K., **Gibson, B.**, and Butts, T. "Retweeting Risk Communication: The Role of Threat and Efficacy." *Risk Analysis*. DOI: [10.1111/risa.13140](https://doi.org/10.1111/risa.13140)

- 2017 Sutton, J., Vos, S. C., Olson, M. K., Woods, C. W., Cohen, E., **Gibson, C. B.**, Phillips, N., Studts, J., Eberth, J., & Butts, C. T.. "Lung Cancer Messages on Twitter: Content Analysis and Evaluation." *Journal of the American College of Radiology*. DOI: [10.1016/j.jacr.2017.09.043](https://doi.org/10.1016/j.jacr.2017.09.043)
- 2017 **Ben Gibson** and Timothy B. Mayhall. "Comprehension Context and Sponsor Effects in a Hospital Mental Health Study." *Sociological Methods and Research*. DOI: [10.1177/0049124117729706](https://doi.org/10.1177/0049124117729706)
- 2016 Fitzhugh, Sean M., **Ben Gibson**, Emma S. Spiro, Carter T. Butts. "Spatio-temporal Filtering Techniques for the Detection of Disaster-related Communication." *Social Science Research*. DOI: [10.1016/j.ssresearch.2016.04.023](https://doi.org/10.1016/j.ssresearch.2016.04.023)
- 2015 Sutton, Jeannette, **Ben Gibson**, Nolan Edward Phillips, Emma S. Spiro, Cedar League, Britta Johnson, Sean M. Fitzhugh, Carter T. Butts (2015). "A cross-hazard analysis of terse message retransmission on Twitter." *Proceedings of the National Academy of Sciences*. DOI: [10.1073/pnas.1508916112](https://doi.org/10.1073/pnas.1508916112)
- 2015 Sutton, Jeannette, **Ben Gibson**, Emma S. Spiro, Cedar League, Sean M. Fitzhugh, Butts, Carter T. In Press. "What it Takes to Get Passed On: Message Content, Style, and Structure as Predictors of Retransmission in the Boston Marathon Bombing Response." *PLOS One*. DOI: [10.1371/journal.pone.0134452](https://doi.org/10.1371/journal.pone.0134452)

Published Reports and Other Publications

- 2020 Kavanagh, Jennifer, Quentin E. Hodgson, and C. Ben Gibson. "Do Americans expect safe and secure elections?" [RR-A112-14](#)
- 2020 Kavanagh, Jennifer, Quentin E. Hodgson, and C. Ben Gibson. "How is the pandemic influencing intention to vote?" [RR-A112-15](#)
- 2020 Kavanagh, Jennifer, Quentin E. Hodgson, and C. Ben Gibson. "Voter attitudes toward the 2020 election: August 2020 update" [RR-A112-16](#)
- 2020 Hartnett, Gavin S.; Vardavas, Raffaele; Baker, Lawrence; Chaykowsky, Michael; Gibson, C. Ben; Giroi, Federico; Kennedy, David P.; Osoba, Osonde. "Deep generative modeling in network science with applications to public policy research" [WRA843-1](#)
- 2020 Kavanagh, Jennifer; Gibson, C. Ben; Cherney, Samantha. "Database of state voting laws: preparing for elections during a pandemic." [RRA112-9](#)
- 2020 Kavanagh, Jennifer; Gibson, C. Ben; Cherney, Samantha. "An assessment of state voting processes: preparing for elections during a pandemic" [RR-A112-8](#)

Software

Ben Gibson and Burrell Vann Jr. "braQCA: Bootstrapped Robustness Assessment for QCA." [R package version 0.9.7-1.0](#)

Manuscripts Under Review

Ben Gibson and Carter T. Butts. "The Effect of Temporal Adjustments on Dynamic Network Models."

Ben Gibson and Burrell Vann Jr. "Bootstrapped Robustness Assessment for QCA." [PDF](#)

- Clifford Clogg Award for Best Graduate Student Paper, Methodology Section, ASA.
- Robin M. Williams Jr. Paper Award, UCI.

AWARDS & FELLOWSHIPS

- 2017 Outstanding Research Award. University of California, Irvine Department of Sociology.
- 2016 Clifford C. Clogg Award for Best Graduate Student Paper. Methodology Section. American Sociological Association.
- 2016 Robin M. Williams Jr. Paper Award, Department of Sociology, UCI.

- 2015 Ferris P. and Annie Ritchey Endowed Scholarship in Sociology, Department of Sociology, UAB.
- 2013 Dean's Research Award, College of Arts and Sciences, UAB

TEACHING

- Instructor.** "Truth Be Told: Informant Accuracy in Clinical Mental Health Assessment" (March 2016). Webinar for the Association of Professional Chaplains (APC).
- Lab Instructor.** University of Alabama at Birmingham. SOCIOLOGY 410: SOCIAL STATISTICS LAB INSTRUCTOR
- Lab Instructor.** University of Alabama at Birmingham. SOCIOLOGY 490: RESEARCH METHODS LAB INSTRUCTOR
- Workshop Assistant.** Modeling Relational Event Dynamics with statnet. 34th-36th Sunbelt Conference.
- Workshop Assistant.** ERGMs with statnet. 34th-36th Sunbelt Conference.

CONFERENCE PRESENTATIONS

- Gibson, C. Ben, Norbou Buchler, Blaine Hoffman, and Claire La Fleur. April, 2019. "Consensus Analysis of Role Composition among a Cybersecurity Competition." Southern Sociological Association, Atlanta, Georgia.
- Gibson, C. Ben, Norbou Buchler, Blaine Hoffman, and Claire La Fleur. December, 2018. "Participation Shifts Explain Long-Tailed Degree Distributions in an Email Network." North American Social Networks Conference, Washington, DC.
- Gibson, C. Ben, and Carter T. Butts. August, 2016. "Relational Dynamics among Emergency Management Organizations during the Boston Bombing Event." Panel Session, American Sociological Association Conference 2016, Seattle, Washington.
- Gibson, C. Ben and Carter T. Butts. April, 2016. "Relational Dynamics between Emergency Management Organizations during a Terrorism Event" Sunbelt Conference XXXVI, Newport Beach, CA.
- Yue Yu, Gibson, C. Ben and Carter T. Butts. April, 2016. "Scalable Dynamic Sexual Contact Networks Coefficients Estimation with DNR Structure." Sunbelt Conference XXXVI, Newport Beach, CA.
- Gibson, C. Ben, Zack Almquist, and Carter T. Butts. August, 2015. "Scalable Estimation of Temporal ERGMs and DNR Structure from Egocentrically Sampled Data." Panel Session, American Sociological Association Conference 2015, Chicago, Illinois.
- Gibson, C. Ben and Burrell Vann Jr. August, 2015. "The Bootstrapped Robustness Assessment for Qualitative Comparative Analysis." Roundtable Discussion, American Sociological Association Conference 2015, Chicago, Illinois.
- Gibson, C. Ben and Carter T. Butts. June, 2015. "The Effect of Temporal Adjustments on Dynamic Network Models." Sunbelt Conference XXXV, Brighton, UK.
- Nolan Edward Phillips, Jeannette Sutton, Sean M. Fitzhugh, Cedar League, Britta Johnson, Emma S. Spiro, Gibson, C. Ben and Carter T. Butts. June, 2015. "Emergency Management Inter-organizational Networks" Sunbelt Conference XXXV, Brighton, UK.
- Yue Yu, Gibson, C. Ben and Carter T. Butts. "How to Know When Your Partner's Sleeping Around: Imputing Concurrency in Dynamic Sexual Contact Networks." June, 2015. Sunbelt Conference XXXV, Brighton, UK.
- Sean Fitzhugh, Jeannette Sutton, Carter T. Butts, Emma S. Spiro, C. Ben Gibson, Cedar League, and Britta Johnson August, 2014. "HEROIC: Hazards, Emergency Response, and Online Informal Communications." Research Highlight, Natural Hazards Annual Workshop. Boulder, Colorado.
- Sean Fitzhugh, Ben Gibson, Emma S. Spiro and Carter T. Butts. August, 2014 *Did You Feel it? Spatial Filtering Techniques for Detection of Local Disaster Events.* American Sociological Association: Section on Mathematical Sociology, San Francisco, California.
- C. Ben Gibson, Yue Yu, Zack Almquist, and Carter T. Butts. February 2014. *Scalable Estimation of Temporal ERGMs with DNR Structure from Egocentrically Sampled Data.* Sunbelt Conference, St. Pete Beach, FL.
- Jeannette Sutton, Emma Spiro, Britta Johnson (presenter), Sean Fitzhugh, C. Ben Gibson, and Carter T. Butts. August 2013. *Warning Tweets: Serial Transmission of Warning Messages During a Disaster Event* American Sociological Association, New York.

C. Ben Gibson, Emma Spiro, Sean Fitzhugh and Carter T. Butts. August 2013. *Findings from Measuring Online Social Networks Dynamics: the Local Is Global*. American Sociological Association, New York.

C. Ben Gibson, Emma Spiro, Sean Fitzhugh, and Carter T. Butts. June 2013. *Estimating Active User Population Dynamics in Online Social Networks*. Sunbelt Conference, Hamburg.

Sean Fitzhugh, C. Ben Gibson, and Carter T. Butts. June 2013. *Extended Brokerage Structures in Organizational Networks: A Model-Driven Approach* Sunbelt Conference, Hamburg.

C. Ben Gibson. August 2012. *Online Social Networks (OSNs) and the Possibility of Representative Snowball Sampling*. American Sociological Association. Denver.

C. Ben Gibson. March 2012. *Hyperbolic Theory and the Idea-Construction of Reality*. Southern Sociological Association. New Orleans.

C. Ben Gibson. March 2011. *Rich Friends, Healthy Mind? Peer Income and Mental Health among Older Adults*. Southwest Sociological Association. Las Vegas.

C. Ben Gibson. April 2010. *Elite Networks and the Political Survival of US Cabinet Members*. Southern Sociological Association. Atlanta.

R. Corbetta and C. Ben Gibson. June 2009. *Revolving Doors and Foreign Policy Collective Decision-Making: A Network Analysis*. Harvard Political Networks Conference. Boston.

TECHNICAL EXPERTISE

Data Collection Experience Collected and stored/managed terabytes of streaming social media data from Twitter; experience with qualitative text categorization; survey methods; conducted in-person survey-assisted interviewing.

Skills R, SQL, L^AT_EX, Linux (bash); Conversant in SPSS, SAS. Managed a dozen servers with a network file system (NFS), SVN, and computational servers.