

# C. Ben GIBSON

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INTERESTS: social network dynamics, methodology,  
human informant accuracy,  
population hazards and health

## EDUCATION

The University of California, Irvine

*PhD, Sociology  
(In Progress)*

2018

Thesis: *Frontier Problems in Dynamic Social Network Models*

The University of California, Irvine

*Master of  
Demographic and  
Social Analysis*

2017

Thesis: *Estimating Active User Population Dynamics in Online Social Networks*

The University of Alabama at Birmingham

*Master of  
Sociology*

2006-2012

Thesis: *Does Homophily Predict Similarities in the Frequency of Heroin Use? An Analysis of Heroin-Using Dyads*

## POSITIONS

Postdoctoral Fellow

*Oak Ridge  
National  
Laboratory*

Aug. 2018-Present

Lab: Army Research Lab, Aberdeen Proving Ground, Aberdeen MD

POC: [Norbou Buchler](#)

Graduate Student Researcher

*UCI Department  
of Sociology*

2012-Present

Lab: Networks, Computation, and Social Dynamics

PI: [Carter T. Butts](#)

Grants worked under:

- *Collaborative Research: Online Hazard Communication in the Terse Regime: Measurement, Modeling, and Dynamics.* NSF CMMI
- *Statistical Methods for Network Epidemiology.* NIH NICHD

Teaching/Research Assistant

*UAB Department  
of Sociology*

2010-2012

Courses: Statistics, Methods

Research Groups: Center for Social Medicine, EMPaCT

References: [Casey Borch](#), [Jeffrey Clair](#), [Shiela Cotten](#)

## PEER-REVIEWED PUBLICATIONS

- 2018 Vos, S. C., Sutton, J., Yu, Y., Renshaw, S., Olson, M. K., **Gibson, C. B.**, and Butts, C. T. "Retweeting Risk Communication: The Role of Threat and Efficacy." *Risk Analysis*.
- 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." Accepted to *Journal of the American College of Radiology*.
- 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." Accepted to *Journal of the American College of Radiology*.

- 2017 **Gibson, C. Ben** and Timothy B. Mayhall. "Comprehension Context and Sponsor Effects in a Hospital Mental Health Study." *Sociological Methods and Research*.
- 2016 Sean M. Fitzhugh, **C. Ben Gibson**, Emma S. Spiro, Carter T. Butts. "Spatio-temporal Filtering Techniques for the Detection of Disaster-related Communication" *Social Science Research*.
- 2015 Sutton, Jeannette, **C. Ben Gibson**, Nolan Edward Phillips, Emma S. Spiro, Cedar League, Britta Johnson, Sean M. Fitzhugh, Carter T. Butts (2015). "Terse Message Retransmission: A Cross-Hazard Analysis of Twitter Warning Messages." *Proceedings of the National Academy of Sciences*.
- 2015 Sutton, Jeannette; **C. 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*.
- 2014 Sutton, Jeannette, Emma S. Spiro, Sean Fitzhugh, Britta Johnson, **C. Ben Gibson**, and Carter T. Butts. "Terse Message Amplification in the Boston Bombing Response." *International Journal of Information Systems for Crisis Response and Management*.
- 2014 Sutton, Jeannette, Emma S. Spiro, Britta Johnson, Sean Fitzhugh, **C. Ben Gibson**, and Carter T. Butts. "Warning Tweets: Serial Transmission of Warning Messages During a Disaster Event." *Information, Communication and Society*.

#### PUBLISHED SOFTWARE

- 2015 C. Ben Gibson and Burrell Vann Jr. (2015). braQCA: Robustness assessment for QCA. CRAN. <https://cran.r-project.org/web/packages/braQCA>

#### MANUSCRIPTS UNDER REVIEW

- Under Review* **C. Ben Gibson** and Carter T. Butts. "The Effect of Temporal Adjustments on Dynamic Network Models." (Submitted to *Social Networks*)
- Under Review* **C. Ben Gibson**, Sarah K. Vos, Jeannette Sutton, and Carter T. Butts. "Practical Imputation of Follower Counts of Public Health Twitter Accounts." (Submitted to *Sociological Methods & Research*)
- Under Review* Sarah Vos, Jeannette Sutton, **Gibson, C. Ben** and Carter T. Butts. "Theorizing the Diffusion of Public Health Messages on Social Network Sites." (Re-submitted to *Preventative Medicine*)

#### SELECTED MANUSCRIPTS IN PROGRESS

- In Progress* Gibson, C. Ben and Carter T. Butts. "The Dynamics of Sexual Partnership Dissolution in the United States."
- In Progress* Gibson. C. Ben and Carter T. Butts. "Separable Dynamic Network Logistic Regression."
- In Progress* Gibson. C. Ben and Norbou Buchler. "Reconstructing Degree Dynamics in a Mission Command Social Network."
- In Progress* Gibson. C. Ben and Claire LeFleur. "Consensus of Role Assignment in Performance of a Cybersecurity Response Team."
- In Progress* Gibson. C. Ben and Martin Jacinto. "The Convergence of Media Consensus in the Ayotzinapa Student Disappearance."

## AWARDS

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.
2015	Robin M. Williams Jr. Paper Award, Department of Sociology, UCI
2012-2013	Social Science Tuition Fellowship, UCI
2010	Ferris P. and Annie Ritchey Endowed Scholarship in Sociology, Department of Sociology, UAB
2010	Dean's Research Award, College of Arts and Sciences, UAB

## TEACHING

<i>Instructor</i>	"Truth Be Told: Informant Accuracy in Clinical Mental Health Assessment" (March 2016). Webinar for the Association of Professional Chaplains (APC).
<i>Workshop Assistant</i>	Modeling Relational Event Dynamics with statnet. 34th-36th Sunbelt Conference.  Exponential-family Random Graph Modeling (ERGMs) with statnet. 34th-36th Sunbelt Conference.
<i>Lab Instructor</i>	SOCIOLOGY 410: SOCIAL STATISTICS LAB INSTRUCTOR
<i>Lab Instructor</i>	SOCIOLOGY 490: RESEARCH METHODS LAB INSTRUCTOR

## SKILLS / DATA COLLECTION EXPERIENCE

<i>Data Collection Experience</i>	Collected and stored/managed terabytes of streaming social media data from Twitter.
<i>Skills</i>	R, SQL, L <sup>A</sup> T <sub>E</sub> X, Linux (bash); Conversant in SPSS, SAS.  Managed a dozen servers with a network file system (NFS), SVN, and computational servers. Instituted regular surveillance of performance and disk/memory/CPU usage.

## PROFESSIONAL CONFERENCE PRESENTATIONS

<i>August, 2016</i>	Gibson, C. Ben, and Carter T. Butts. "Relational Dynamics among Emergency Management Organizations during the Boston Bombing Event." Panel Session, American Sociological Association Conference 2016, Seattle, Washington.
<i>April, 2016</i>	Gibson, C. Ben and Carter T. Butts. "Relational Dynamics between Emergency Management Organizations during a Terrorism Event" Sunbelt Conference XXXVI, Newport Beach, CA.
<i>April, 2016</i>	Yue Yu, Gibson, C. Ben and Carter T. Butts. "Scalable Dynamic Sexual Contact Networks Coefficients Estimation with DNR Structure." Sunbelt Conference XXXVI, Newport Beach, CA.
<i>August, 2015</i>	Gibson, C. Ben, Zack Almquist, and Carter T. Butts. "Scalable Estimation of Temporal ERGMs and DNR Structure from Egocentrically Sampled Data." Panel Session, American Sociological Association Conference 2015, Chicago, Illinois.
<i>August, 2015</i>	Gibson, C. Ben and Burrell Vann Jr. "The Bootstrapped Robustness Assessment for Qualitative Comparative Analysis." Roundtable Discussion, American Sociological Association Conference 2015, Chicago, Illinois.

- June, 2015 Gibson, C. Ben and Carter T. Butts. "The Effect of Temporal Adjustments on Dynamic Network Models." Sunbelt Conference XXXV, Brighton, UK.
- June, 2015 Nolan Edward Phillips, Jeannette Sutton, Sean M. Fitzhugh, Cedar League, Britta Johnson, Emma S. Spiro, Gibson, C. Ben and Carter T. Butts. "Emergency Management Inter-organizational Networks" Sunbelt Conference XXXV, Brighton, UK.
- June, 2015 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" Sunbelt Conference XXXV, Brighton, UK.
- August, 2014 Sean Fitzhugh, Jeannette Sutton, Carter T. Butts, Emma S. Spiro, C. Ben Gibson, Cedar League, and Britta Johnson "HEROIC: Hazards, Emergency Response, and Online Informal Communications." Research Highlight, Natural Hazards Annual Workshop. Boulder, Colorado.
- August, 2014 Sean Fitzhugh, Ben Gibson, Emma S. Spiro and Carter T. Butts. *Did You Feel it? Spatial Filtering Techniques for Detection of Local Disaster Events.* American Sociological Association: Section on Mathematical Sociology, San Francisco, California.
- February 2014 C. Ben Gibson, Yue Yu, Zack Almquist, and Carter T. Butts. *Scalable Estimation of Temporal ERGMs with DNR Structure from Egocentrically Sampled Data.* Sunbelt Conference, St. Pete Beach, FL.
- August 2013 Jeannette Sutton, Emma Spiro, Britta Johnson (presenter), Sean Fitzhugh, C. Ben Gibson, and Carter T. Butts. *Warning Tweets: Serial Transmission of Warning Messages During a Disaster Event* American Sociological Association, New York.
- August 2013 C. Ben Gibson, Emma Spiro, Sean Fitzhugh and Carter T. Butts. *Findings from Measuring Online Social Networks Dynamics: the Local Is Global.* American Sociological Association, New York.
- June 2013 C. Ben Gibson, Emma Spiro, Sean Fitzhugh, and Carter T. Butts. *Estimating Active User Population Dynamics in Online Social Networks.* Sunbelt Conference, Hamburg.
- June 2013 Sean Fitzhugh, C. Ben Gibson, and Carter T. Butts. *Extended Brokerage Structures in Organizational Networks: A Model-Driven Approach* Sunbelt Conference, Hamburg.
- August 2012 C. Ben Gibson. *Online Social Networks (OSNs) and the Possibility of Representative Snowball Sampling.* American Sociological Association. Denver.
- March 2012 C. Ben Gibson. *Hyperbolic Theory and the Idea-Construction of Reality.* Southern Sociological Association. New Orleans.
- March 2011 C. Ben Gibson. *Rich Friends, Healthy Mind? Peer Income and Mental Health among Older Adults.* Southwest Sociological Association. Las Vegas.
- April 2010 C. Ben Gibson. *Elite Networks and the Political Survival of US Cabinet Members.* Southern Sociological Association. Atlanta.
- June 2009 R. Corbetta and C. Ben Gibson *Revolving Doors and Foreign Policy Collective Decision-Making: A Network Analysis.* Harvard Political Networks Conference. Boston.