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Education

2013	PhD Sociology	University of California, Irvine
	• <i>Vertex Processes in Social Networks</i> (Carter T Butts, Chair)	
2010	MA Sociology	University of California, Irvine
2008	MA Demography	University of California, Irvine
2007	MS Statistics	Northwestern University
2005	BS Mathematics (<i>Hons</i>)	University of Oregon

Primary Appointments

2013-	University of Minnesota – Twin Cities
	Assistant Professor, Department of Sociology
	Assistant Professor, School of Statistics

Affiliations and Past Positions

2017-	IonE Associate	Institute on the Environment (IonE)	University of Minnesota
2017-	Faculty Affiliate	Digital Technology Center	University of Minnesota
2014-	Faculty Affiliate	Data Science Program	University of Minnesota
2013-	Faculty Affiliate	Minnesota Population Center	University of Minnesota
2013-	Faculty Affiliate	Life Course Center	University of Minnesota
2017-2018	Visiting Scholar	Graduate School of Education	Stanford University
2016-2017	Visiting Scholar	Dept. of CS & Engineering	University of Washington
2016-2017	Visiting Scholar	Cent. for Statistics and the Soc Sci	University of Washington
2016-2017	Visiting Scholar	eScience Institute	University of Washington
2008	YSSP Researcher	World Population & Global Health	IIASA
2007	Research Analyst	Div. Stat. and Methodology, NORC	University of Chicago

Research interests

Social Network Analysis, Big Data, Computational Social Science, Sociology of Education, Environmental Policy, Public Health, Demography, and Human Judgment and Decision Making.

Awards and honors

2018	Best Paper Award from the 10th International Conference on Social Computing and Social Media (HCII 2018) for <i>Stay Connected and Keep Motivated: Modeling Activity Level of Exercise in an Online Fitness Community</i> . (With Li Zeng and Emma Spiro).
2017	Nominated (top 5) for the Lee Dirks Award for Best Paper (Best Completed Research Paper) from the iConference2017 for <i>Let's Workout! Exploring Social Exercise in an Online Fitness Community</i> . (With Li Zeng and Emma Spiro).

- 2016 Recognized as one of the Top 50 Graduate and Postdoctoral Alumni Honorees at UCI's 50th year Celebration. Honorees were selected from across all divisions in the University, and represent 50 years of graduate education at UCI.
- 2014 ARO Young Investigator Program (YIP).
- 2013 Outstanding Dissertation in Progress Award from the American Sociological Association's Section on Mathematical Sociology for *Vertex Processes in Social Networks*.
- 2012 Honorable Mention (2nd place) for the Student Paper Competition from the Pacific Chapter of the American Association for Public Opinion Research (PAPOR) for *Predicting Regional Self-Identification from Spatial Network Models*.
- 2012 Honorable Mention for the Robin Williams Jr. Paper Award from the Department of Sociology, University of California, Irvine for *Random errors in egocentric networks*.
- 2011 Best Methodological Poster Award from the 4th Annual Political Networks Conference for *Contending Parties: A Logistic Choice Analysis of Inter and Intra-group Blog Citation Dynamics in the 2004 US Presidential Election* (with Carter T Butts).
- 2011 Order of Merit Award: A. Kimball Romney Award for Outstanding Research Paper from the School of Social Sciences, University of California, Irvine for *Predicting Regional Self-Identification from Spatial Network Models*.
- 2005 Graduated with departmental honors in Mathematics and from the Honors College, University of Oregon. Honors thesis: *Lower Tail Probabilities and the Gaussian Process*.

Peer-reviewed articles

- Almquist, Z. W. (forthcoming). Large-scale Spatial Network Models: An application to modeling information diffusion through the homeless population of San Francisco. *Environment and Planning B: Urban Analytics and City Science*.
- Almquist, Z. W., S. Arya, L. Zeng, and E. S. Spiro (forthcoming). Unbiased Sampling of Users from (Online) Activity Data. *Field Methods*.
- Almquist, Z. W. and B. E. Bagozzi (forthcoming). Using Radical Environmental Texts to Uncover Network Structure and Network Features. *Sociological Methods & Research*.
- Almquist, Z. W. and C. T. Butts (2018). Dynamic Network Analysis with Missing Data: Theory and Methods. *Statistica Sinica* 28(3), 1245–1264.
- Anker, J. J., M. Forbes, Z. W. Almquist, J. Menk, P. Thuras, and M. G. Kushner (2017). A Network Approach to Conceptualizing Comorbid Internalizing and Alcohol Use Disorders. *Journal of Abnormal Psychology* 126(3), 325–339.
- Almquist, Z. W. and B. E. Bagozzi (2016). The Spatial Properties of Radical Environmental Organizations in the UK: Do or Die! *PLoS ONE* 11(11), 1–19.
- Spiro, E. S., Z. W. Almquist, and C. T. Butts (2016). The Persistence of Division: Geography, Institutions, and Online Friendship Ties. *Socius: Sociological Research for a Dynamic World* 2(1), 1–15.
- Butts, C. T. and Z. W. Almquist (2015). A Flexible Parameterization for Baseline Mean Degree in Multiple-Network ERGMs. *The Journal of Mathematical Sociology* 39(3), 163–167.
- Almquist, Z. W. and C. T. Butts (2015). Predicting Regional Self-Identification from Spatial Network Models. *Geographical Analysis* 47(1), 50–72.
- Smith, E. J., C. S. Marcum, A. Boessen, Z. W. Almquist, J. R. Hipp, N. N. Nagle, and C. T. Butts (2014). The Relationship of Age to Personal Network Size, Relational Multiplexity, and Proximity to Alters in the Western United States. *The Journal of Gerontology: Series B* 70(1), 91–99.
- Almquist, Z. W. and C. T. Butts (2014). Logistic Network Regression for Scalable Analysis of Networks with Joint Edge/Vertex Dynamics. *Sociological Methodology* 44(1), 273–321.
- Boessen, A., J. R. Hipp, E. J. Smith, C. T. Butts, N. N. Nagle, and Z. W. Almquist (2014). Networks, Space, and Residents' Perception of Cohesion. *American Journal of Community Psychology* 53(3), 447–461.
- Almquist, Z. W. and C. T. Butts (2013). Dynamic Network Logistic Regression: A Logistic Choice Analysis of Inter- and Intra-group Blog Citation Dynamics in the 2004 US Presidential Election. *Political Analysis* 21(4), 430–448.

Almquist, Z. W. and C. T. Butts (2012). Point process models for household distributions within small areal units. *Demographic Research* 26(22), 593–632.

Almquist, Z. W. (2012). Random errors in egocentric networks. *Social Networks* 34(4), 493–505.

Almquist, Z. W. (2010). US Census Spatial and Demographic Data in R: The UScensus2000 Suite of Packages. *Journal of Statistical Software* 37(6), 1–31.

Peer-reviewed conference proceedings

Zeng, L., Z. W. Almquist, and E. S. Spiro (2018). *Stay Connected and Keep Motivated: Modeling Activity Level of Exercise in an Activity-based Social Network*. {Accepted for publication in Conference Proceedings for HCII2018 in Springer’s Lecture Notes in Computer Science }.

Zeng, L., Z. W. Almquist, and E. S. Spiro (2017). Let’s Workout! Exploring Social Exercise in an Online Fitness Community. In: *The iConference 2017 Proceedings, Wuhan, China*. Vol. 2, pp.87–98.

Kurant, M., M. Gjoka, Y. Wang, Z. W. Almquist, C. T. Butts, and A. Markopoulou (2012). Coarse-Grained Topology Estimation via Graph Sampling. In: *Proceedings of ACM SIGCOMM Workshop on Online Social Networks (WOSN) ’12*. Helsinki, Finland.

Book chapters

Almquist, Z. W., E. S. Spiro, and C. T. Butts (2016). “Shifting Attention: Modeling Follower Relationship Dynamics among US Emergency Management-related Organizations During a Colorado Wildfire”. In: *Social Network Analysis of Disaster Response, Recovery, and Adaptation*. Ed. by A. Faas and E. Jones. Philadelphia, PA: Elsevier.

Almquist, Z. W. and C. T. Butts (2014). “Bayesian Analysis of Dynamic Network Regression with Joint Edge/Vertex Dynamics”. In: *Bayesian Inference in the Social Sciences*. Ed. by I. Jeliaskov and X.-S. Yang. Hoboken, New Jersey: John Wiley & Sons.

Conference proceedings

Anker, J., M. Kushner, P. Thuras, J. Menk, A. Unruh, B. Wagner, and Z. Almquist (2016). Anxiety Disorder And Alcohol Use Disorder As Causal Systems Bridged By Drinking To Cope: A Network Approach To Comorbidity. *Alcoholism: Clinical and Experimental Research* 40, 107A–107A.

Meeden, G., Z. Almquist, and C. Geyer (2016). Better adjusted weights for respondents in skewed populations. In: *Proceedings of Statistics Canada Symposium 2016*.

Bagozzi, B., D. Berliner, and Z. Almquist (2016). Predicting Government (Non)Responsiveness to Freedom of Information Requests with Supervised Latent Dirichlet Allocation. In: *Proceedings of the International Conference on the Advances in Computational Analysis of Political Text - PolText 2016*. Dubrovnik, Croatia.

Valluvan, R., Z. W. Almquist, A. Anandkumar, and C. T. Butts (2012). *Modeling Dynamic Social Networks with Vertex Evolution via Latent Graphical Models*. Poster presentation at The 2012 NIPS Workshop on Social Network and Social Media Analysis, Methods, Models, and Applications, Lake Tahoe, NV.

Book reviews

Almquist, Z. W. (2017). Book Review: *Illuminating Dark Networks: The Study of Clandestine Groups and Organizations*. *Journal of Mathematical Sociology* 41(4), 248–250.

Almquist, Z. W. (2015). Book Review: *Risk Assessment and Decision Analysis with Bayesian Networks*. *The American Statistician* 69(4), 430–431.

Policy reports

DeWaard, J., Z. W. Almquist, S. Brower, L. Huang, and S. Chase (2016). *Internal Migration and Recovery from the Great Recession in Urban Minnesota Counties and Neighborhoods*. CURA Reporter, Center for Urban and Regional Affairs, University of Minnesota.

Submitted articles

Zeng, L., Z. W. Almquist, and E. S. Spiro (2018). “*Friending*” in Online Fitness Communities: Exploring Activity-Based Online Network Structure.

- Almquist, Z. W., N. E. Helwig, and Y. You (2017). *Connecting HUD Continuum of Care Point-in-Time Homeless Counts to US Census Geographies: 2005 to 2016*. {R&R at Mathematical Population Studies, special issue on spatial and mathematical demography}.
- Mallik, A. and Z. W. Almquist (2017). *Stable Multiple Time Step Simulation/Prediction from Lagged Dynamic Network Regression Models*. {R&R at Journal of Computational and Graphical Statistics}.
- Abel, G. J., J. DeWaard, J. Trang Ha, and Z. W. Almquist (2017). *The Form and Evolution of International Migration Networks, 1960-2015: Implications for the Globalization of Migration Thesis*. {R&R International Migration Review}.
- Almquist, Z. W. and B. E. Bagozzi (2017). *Unlocking the Tactics, Network and Membership of Clandestine Social Movements: The Topical Agenda of the North American Animal Liberation Movement*.

Working papers

- Almquist, Z. W. and B. Hanowell (2017). *What can Big Data Tell Us? Measuring Social Isolation in Older Adult Populations*.
- Spiro, E. S., Z. W. Almquist, and L. Zeng (2017). *Spatial, Social and Temporal Dimensions of Activity: A New Social Network Dataset using Strava Phone App*.
- Zeng, L., E. S. Spiro, and Z. W. Almquist (2017). *Social Exercise in an Online Fitness Community*.
- Mallik, A. and Z. W. Almquist (2017). *Dynamic Network Regression: The dnr package*.
- Almquist, Z. W. and Y. Yang (2015). *Heuristics and data-collection strategies for the application of dynamic network models: A simulation study*.
- Almquist, Z. W. and Y. Yang (2015). *Automatic model selection using penalized regression methods for Dynamic Network Logistic-Regression*.
- Almquist, Z. W. and C. T. Butts (2014). *Evolving Context: Evidence from Temporal Change in Organizational Collaboration over the Course of the 2005 Katrina Disaster*.

Grants and fellowships

External

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| 2014-2017 | Almquist, Z. W. (PI). "Scalable Temporal Network Models with Population Dynamics: Estimation, Simulation, and Prediction." Award #W911NF-14-1-0577, Army Research Office (ARO), Young Investigator Program. \$146,079. |
| 2017 | Almquist, Z. W. (PI). "Undergraduate Research Apprenticeship Program/High School Research Apprenticeship Program." Addendum to Award #W911NF-14-1-0577, ARO. \$18,000. |
| 2013-2014 | Butts, C. T. (PI), and Almquist, Z. W. (Co-PI). "Doctoral Dissertation Research: Dynamic Network Models for the Scalable Analysis of Networks with Missing or Sampled Joint Edge/Vertex Evolution." Grant #SES-1260798, NSF, Social, Behavior & Economic Sciences (SBE), Methodology, Measurement and Statistics (MMS). \$15,140. |
| 06-08/2008 | National Academy of Sciences (NAS) Fellowship Grant, funded by the NSF, to participate in the Young Scientist Summer Program (YSSP) at the International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria. \$8,000. |

Internal

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| 2016 | Single Semester Leave (Fall), College of Liberal Arts, University of Minnesota. |
| 2016-2017 | Almquist, Z. W. "Demographic Opportunity Structures in Activity-Based Online Social Networks." Grant-in-Aid of Research, Artistry, and Scholarship, Office of the Vice President for Research, University of Minnesota. \$40,708.28. |
| 2014-2015 | DeWaard, J. and Almquist, Z. W. "Internal Migration and Recovery from the Great Recession in Urban Minnesota Counties and Neighborhoods." CURA Faculty Interactive Research Program, University of Minnesota. \$45,000. |
| 07/2014 | Almquist, Z. W. and Meeden, G. "A Bayesian Approach to Finite Population Sampling for the Social Sciences: Applications to Sample Weighting and Small Area Estimation." Minnesota Population Center Proposal Development Grant, University of Minnesota. \$8,000. |
| 2008-2009 | Social Science Merit Fellowship, University of California, Irvine. |
| 2005-2006 | University Fellowship, Northwestern University. |

Seminars and invited presentations

- Almquist, Z. W. (2018). *Modeling the Social Support Networks of the Homeless*. Department of Biostatistics, University of Iowa, Iowa City.
- Almquist, Z. W. (2017). *Stable Multiple Time Step Prediction from Dynamic Network Regression Models*. Invited Talk. NetSci2017 Workshop: When Complex Networks Meet Complex Data: Higher-Order Models in Network Science, Indianapolis, Indiana.
- Almquist, Z. W. (2017). *The Social and Demographic Dimensions of an Online Fitness Community*. BIOST/STAT 111 – Lectures in Applied Statistics, University of Washington.
- Almquist, Z. W. (2016). *Uncovering Network and Spatial Structures from Radical Environmentalist Texts*. Department of Statistical and Actuarial Sciences, Western University, London, Ontario.
- Almquist, Z. W. (2016). *Information Diffusion over Textually Derived Collaboration Networks of Radical Environmental Organizations*. Invited Talk. Opinion Dynamics Workshop, University of Texas, Austin, Texas.
- Almquist, Z. W. (2016). *Uncovering Network and Spatial Structures from Radical Environmentalist Texts*. Datalab, iSchool, University of Washington.
- Almquist, Z. W. (2016). *Activity-based Networks and Text-based Networks*. Lightning Talk. Big Social Data Day, eScience, University of Washington.
- Almquist, Z. W. (2016). *Using Radical Environmentalist Texts to Uncover Network Structure and Network Features*. Department of Statistics Seminar Series, University of Washington.
- Almquist, Z. W. (2016). *Assortative Mixing in Activity-based Online Social Networks*. Center for Statistics and the Social Sciences Seminar Series, University of Washington.
- Almquist, Z. W. (2016). *A Brief Introduction to Social Network Analysis: Descriptives to Statistical Inference*. Inequality & Methods Workshop, Minnesota Population Center, University of Minnesota, Twin Cities.
- Almquist, Z. W. (2015). *Geographically Embedded Large-scale Interpersonal Networks: Theory and Methods*. Department of Political Science: 2015 Political Methodology Colloquium, University of Minnesota, Twin Cities.
- Almquist, Z. W. (2014). *Methods for Missing Data in Dynamic Network Regression Models*. Invited Talk. The 2014 International Indian Statistical Association Conference On Research Innovations in Statistics for Health, Education, Technology, and Society, Riverside, CA.
- Almquist, Z. W. (2013). *US Census Spatial and Demographic Data in R with Applications to Spatially Embedded Social Networks*. Inequality & Methods Workshop, Minnesota Population Center, University of Minnesota, Twin Cities.
- Almquist, Z. W. (2013). *US Census Spatial and Demographic Data in R with Applications to Spatially Embedded Social Networks*. Center for Studies in Demography and Ecology Seminar Series, University of Washington, Seattle.
- Almquist, Z. W. (2013). *Population Dynamics and Network Dynamics: A Holistic Approach*. Department of Sociology and School of Statistics, University of Minnesota, Twin Cities.
- Almquist, Z. W. (2013). *Population Dynamics and Network Dynamics: A Holistic Approach*. NULab for Texts, Maps, and Networks, Northeastern University, Boston, MA.
- Almquist, Z. W. (2013). *Population Dynamics and Network Dynamics: A Holistic Approach*. Department of Sociology, Stony Brook University, Long Island, NY.
- Almquist, Z. W. (2013). *Population Dynamics and Network Dynamics: A Holistic Approach*. Department of Sociology, University of South Carolina, Columbia.
- Almquist, Z. W. (2012). *Modeling Household Locations from Census Data: Some Simple Techniques, with Application to Social Networks*. Population, Society and Inequality Seminar Series, University of California, Irvine.
- Almquist, Z. W. (2012). *Population Dynamics and Network Dynamics: A Holistic Approach*. Department of Sociology, University of Nebraska - Lincoln.
- Almquist, Z. W. (2010). *US Census Spatial and Demographic Data in R*. Population, Society and Inequality Seminar Series, University of California, Irvine.

Conference presentations

- Almquist, Z. W., N. E. Helwig, and Y. You (2018). *HUD Continuum of Care Point-in-Time Homeless Counts to US Census Geographies: 2005 to 2017*. The 113th Annual Meeting of the American Sociological Association: Paper Session in Quantitative Methodology, Philadelphia, PA.
- Almquist, Z. W. and B. E. Bagozzi (2018). *Unlocking the Tactics, Network and Membership of Clandestine Social Movements*. The 113th Annual Meeting of the American Sociological Association: Round Table for the Section on Collective Behavior and Social Movements, Philadelphia, PA.
- Nilakanta, H., Z. W. Almquist, and G. Jones (2018). *Effective Sample Size for Network Sampling Approaches*. Poster Presented at The 2018 Annual Meeting of the Population Association of America, Denver, CO.
- Abel, G., J. DeWaard, J. T. Ha, and Z. W. Almquist (2018). *The Form and Evolution of International Migration Networks, 1960-2015: Implications for the Globalization of Migration Thesis*. The 2018 Annual Meeting of the Population Association of America, Denver, CO.
- Almquist, Z. W., N. Helwig, and Y. You (2018). *Connecting HUD Continuum of Care Point-in-Time Homeless Counts to US Census Geographies: 2005 to 2016*. The 2018 Annual Meeting of the Population Association of America, Denver, CO.
- Nilakanta, H. and Z. W. Almquist (2017). *An Overview of Network Sampling Methods: On- and Off-Line*. Poster presentation at The 2017 Joint Statistical Meetings, Baltimore, MD.
- Arya, S., E. S. Spiro, and Z. W. Almquist (2016). *Geo-social rankings derived from activity-based apps*. Socinfo2016 Workshop on Online And Activity-based Social Networks: Sampling, Measuring And Modeling The Effects Of Technology On Health-related Behaviors, Seattle, WA.
- Nilakanta, H. and Z. W. Almquist (2016). *Network sampling techniques and software for online social networks*. Socinfo2016 Workshop on Online And Activity-based Social Networks: Sampling, Measuring And Modeling The Effects Of Technology On Health-related Behaviors, Seattle, WA.
- Abel, G. J., J. DeWaard, Z. W. Almquist, and J. Trang Ha (2016). *The form and evolution of international migration flow networks*. British Population Studies Society Conference 2016, Winchester UK.
- Almquist, Z. W. and B. E. Bagozzi (2016). *Using Radical Environmentalist Texts to Uncover Network Structure and Network Features*. The 111th Annual Meeting of the American Sociological Association: Regular Session in Methods for Social Network Analysis, Seattle, WA.
- Spiro, E. S. and Z. W. Almquist (2016). *Gender-based Opportunity Structures in an Activity-based Online Social Network*. The 111th Annual Meeting of the American Sociological Association: Paper Session in Rationality and Social Structure, Seattle, WA.
- Butts, C. T., E. J. Smith, J. R. Hipp, N. N. Nicholas, A. Boessen, R. Acton, C. S. Marcum, and Z. W. Almquist (2016). *Large-scale Geographical Structure in Interpersonal Networks within the Western United States*. The 111th Annual Meeting of the American Sociological Association: Regular Session in Mathematical Sociology, Seattle, WA.
- Almquist, Z. W. and E. S. Spiro (2016). *The Structure of Activity-based Online Personal Networks*. The Joint Statistical Meetings (JSM) 2016, Chicago, IL.
- Bagozzi, B., D. Berliner, and Z. Almquist (2016). *Predicting Government (Non)Responsiveness to Freedom of Information Requests with Supervised Latent Dirichlet Allocation*. International Conference on the Advances in Computational Analysis of Political Text - PolText 2016, Dubrovnik, Croatia.
- Anker, J. J., M. G. Kushner, P. Thuras, J. Menk, A. S. Unruh, B. L. Wagner, and Z. W. Almquist (2016). *Anxiety disorder and alcohol use disorder as causal systems bridged by drinking to cope: A network approach to comorbidity*. Poster presented at the 39th Annual Research Society on Alcoholism (RSA) Scientific Meeting.
- Bagozzi, B. and Z. W. Almquist (2016). *The Spatial Properties of Radical Environmental Organizations in the UK*. The 36th Sunbelt Network Conference (INSNA), Newport, CA.
- Almquist, Z. W. and E. S. Spiro (2016). *Personal Network Structures in Activity-based Online Social Networks*. The 36th Sunbelt Network Conference (INSNA), Newport, CA.
- Spiro, E. and Z. W. Almquist (2016). *Mechanisms of Tie Formation in Activity-based Online Social Networks*. The 36th Sunbelt Network Conference (INSNA), Newport, CA.

- Abel, G. J., J. DeWaard, Z. W. Almquist, and J. Trang Ha (2016). *The form and evolution of international migration flow networks*. The 2016 Annual Meeting of the Population Association of America, Washington DC.
- Almquist, Z. W. and Y. Yang (2015). *Heuristics and data-collection strategies for the application of dynamic network models: A simulation study*. The 110th Annual Meeting of the American Sociological Association: Paper Session in Mathematical Sociology, Chicago, IL.
- Gibson, B., Z. W. Almquist, and C. T. Butts (2015). *Scalable Estimation of Temporal ERGMs with DNR Structure from Egocentrically Sampled Data*. The 110th Annual Meeting of the American Sociological Association: Paper Session in Innovative Methodological Applications to Data Analysis, Chicago, IL.
- Spiro, E. and Z. W. Almquist (2015). *Social Interaction in Activity-Based Online Communities*. The Joint Statistical Meetings (JSM) 2015, Seattle, WA.
- Almquist, Z. W. and Y. Yang (2015). *Data-Collection Strategies for the Application of Conditional Dynamic Network Models*. The Joint Statistical Meetings (JSM) 2015, Seattle, WA.
- Almquist, Z. W. and Y. Yang (2015). *Predictive Assessment of Common Estimation Strategies for Dynamic Network Regression Models*. 17th Meeting of New Researchers in Statistics and Probability, Seattle, WA.
- Almquist, Z. W. and Y. Yang (2015). *Heuristics and data-collection strategies for dynamic network sampling*. The 35th Sunbelt Network Conference (INSNA), Brighton, UK.
- Spiro, E. and Z. W. Almquist (2015). *Demographic Opportunity Structures in Activity-Based Online Social Networks*. The 35th Sunbelt Network Conference (INSNA), Brighton, UK.
- Bagozzi, B. and Z. W. Almquist (2015). *Using Extremist Texts to Uncover Network Structure and Network Features*. The 35th Sunbelt Network Conference (INSNA), Brighton, UK.
- Almquist, Z. W. and Y. Yang (2015). *Suggested data-collection strategies for the application of dynamic network regression models: A simulation and empirical study*. Poster presentation at The International Conference on Computational Social Science, Helsinki, Finland.
- Almquist, Z. W., J. DeWaard, S. Brower, K. Huang, and S. Chase (2015). *A Method for Estimating Neighborhood-to-Neighborhood Migration Flows from County-to-County Flow Data*. The 2015 Annual Meeting of the Population Association of America, San Diego, CA.
- Almquist, Z. W. and C. T. Butts (2014). *Dynamic Network Logistic-Regression with Missing Data: Theory and Methods*. The Joint Statistical Meetings (JSM) 2014, Boston, MA.
- Almquist, Z. W. and C. T. Butts (2014). *Dynamic Network Analysis with Missing Data: Theory and Methods*. The 109th Annual Meeting of the American Sociological Association: Paper Session in Quantitative Methodology, San Francisco, CA.
- Smith, E. J., C. M. Marcum, A. Boessen, Z. W. Almquist, J. R. Hipp, N. N. Nagle, and C. T. Butts (2014). *The Relationship of Age to Network Size, Multiplexity, and Proximity to Alters in the Western U.S*. The 109th Annual Meeting of the American Sociological Association: Round Table in the Section on Aging and the Life Course, San Francisco, CA.
- Almquist, Z. W. and C. T. Butts (2014). *Bayesian Analysis of Dynamic Network Regression with Joint Edge/Vertex Dynamics*. The 34th Sunbelt Network Conference (INSNA), St. Pete Beach, FL.
- Smith, E. J., C. M. Marcum, A. Boessen, Z. W. Almquist, J. R. Hipp, N. N. Nagle, and C. T. Butts (2014). *The Relationship of Age to Personal Network Size, Relational Multiplexity, and Proximity to Alters in the Western United States*. The 34th Sunbelt Network Conference (INSNA), St. Pete Beach, FL.
- Gibson, B., Y. Yu, Z. W. Almquist, and C. T. Butts (2014). *Scalable Estimation of Temporal ERGMs with DNR Structure from Egocentrically Sampled Data*. Poster presentation at The 34th Sunbelt Network Conference (INSNA), St. Pete Beach, FL.
- Almquist, Z. W. and C. T. Butts (2013). *Dynamic Network Logistic-Regression: A Dynamic Logistic Choice Analysis of DNC and RNC Blog Citation Networks in the 2004 US Presidential Election*. The 108th Annual Meeting of the American Sociological Association: Paper Session in Mathematical Sociology, New York, NY.
- Almquist, Z. W., E. S. Spiro, and C. T. Butts (2013). *Missing Data Methods for Dynamic Network logistic-Regression*. The 33rd Sunbelt Network Conference (INSNA), Hamburg, Germany.
- Smith, E., Z. W. Almquist, A. Boessen, C. T. Butts, J. R. Hipp, and N. Nagle (2013). *Social Cohesion across Demographics and Space*. The 33rd Sunbelt Network Conference (INSNA), Hamburg, Germany.

- Valluvan, R., Z. W. Almquist, A. Anandkumar, and C. T. Butts (2012). *Modeling Dynamic Social Networks with Vertex Evolution via Latent Graphical Models*. Poster presentation at The 2012 NIPS Workshop on Social Network and Social Media Analysis, Methods, Models, and Applications, Lake Tahoe, NV.
- Boessen, A., J. R. Hipp, C. T. Butts, N. Nagle, Z. W. Almquist, C. Marcum, and R. Acton (2012). *Neighborhoods and Space: Situating Residents' Networks*. The American Society of Criminology Annual Meeting, Chicago, IL.
- Almquist, Z. W. and C. T. Butts (2012). *Logistic Network Regression for Scalable Analysis of Networks with Joint Edge/Vertex Dynamics*. The 107th Annual Meeting of the American Sociological Association: Regular Paper Session in Quantitative Methodology, Denver, CO.
- Almquist, Z. W., E. S. Spiro, and C. T. Butts (2012). *Dynamic Network Logistic Regression with Missing Data, with an Application to a Dynamic US Governmental Emergency Management-related Friend/Follower Network on Twitter*. The Fifth Joint Japan-North America Mathematical Sociology Conference, Denver, CO.
- Almquist, Z. W. and C. T. Butts (2012). *Point Process Models for Household Distributions within Small Areal Units*. Poster presentation at The 2012 Annual Meeting of the Population Association of America, San Francisco, CA.
- Almquist, Z. W. and C. T. Butts (2012). *Evolving Context: Evidence from Temporal Change in Organizational Collaboration over the Course of the 2005 Katrina Disaster*. The 2012 Pacific Sociological Association Meeting, San Diego, CA.
- Almquist, Z. W. and C. T. Butts (2012). *Network Diffusion and the Effects of Geographic Heterogeneity within Human Populations*. The 32nd Sunbelt Network Conference (INSNA), Redondo Beach, CA.
- Hipp, J. R., C. T. Butts, R. M. Acton, N. Nagles, A. Boessen, C. S. Marcum, and Z. W. Almquist (2012). *Spatial Networks and the Perception of Neighborhood*. The 32nd Sunbelt Network Conference (INSNA), Redondo Beach, CA.
- Valluvan, R., Z. W. Almquist, C. T. Butts, and A. Anandkumar (2012). *Vertex Set Prediction of Dynamic Networks Using Semi-parametric Latent Tree Models*. The 32nd Sunbelt Network Conference (INSNA), Redondo Beach, CA.
- Boessen, A., J. R. Hipp, C. T. Butts, R. M. Acton, N. Nagles, C. S. Marcum, and Z. W. Almquist (2012). *If There's a Crime in Your Neighborhood, Who you Gonna Call?* The 32nd Sunbelt Network Conference (INSNA), Redondo Beach, CA.
- Almquist, Z. W. and C. T. Butts (2012). *Methods for Scalable Analysis of Temporal Network Data with Vertex and Edge Dynamics*. Poster presentation at the IMA Conference on Network Links: Connecting Social, Communication, and Biological Network Analysis, University of Minnesota.
- Boessen, A., J. R. Hipp, C. T. Butts, C. S. Marcum, and Z. W. Almquist (2011). *If There's a Crime In Your Neighborhood, Who You Gonna Call?* The American Society of Criminology Annual Meeting, Washington DC.
- Hipp, J. R., C. T. Butts, R. M. Acton, N. Nagles, A. Boessen, and Z. W. Almquist (2011). *Homophily, Propinquity, and Their Consequences for the Structure of Neighborhood Networks and Crime: Simulating Networks*. The American Society of Criminology Annual Meeting, Washington DC.
- Spiro, E. S., Z. W. Almquist, and C. T. Butts (2011). *Maintaining Ties from Coast to Coast: Selective Mixing Between Universities on Facebook*. The 106th Annual Meeting of the American Sociological Association: Paper Session in Methodology: A Gallery of Applications—Inequality, Status, and Other Social Processes, Las Vegas, NV.
- Butts, C. T. and Z. W. Almquist (2011). *Dynamic Logit Models for Emergent Collaboration Networks*. The Third International ARS Workshop on Social Network Analysis – Collaboration Networks and Knowledge Diffusion: Theory, Data, and Methods, Naples, Italy.
- Butts, C. T. and Z. W. Almquist (2011). *Modeling the Dynamics of Emergent Networks: Collaboration and Mass Convergence in the Hurricane Katrina Disaster*. The 4th Annual Political Networks Conference, University of Michigan.
- Almquist, Z. W. and C. T. Butts (2011). *Contending Parties: A Dynamic Logistic Choice Analysis of DNC and RNC Blog Citation Networks in the 2004 US Presidential Election*. Poster presentation at The 4th Annual Political Networks Conference, University of Michigan.

- Almquist, Z. W. and C. T. Butts (2011). *Logistic Network Regression for Scalable Analysis of Networks with Joint Edge/Vertex Dynamics*. The 9th Annual IMBS Graduate Student Conference, University of California, Irvine.
- Butts, C. T. and Z. W. Almquist (2011). *Allies and Rivals: Modeling Citation Dynamics among Party-Credentialed Blogs in the 2004 US Electoral Cycle*. CSD Conference on Internet, Voting, and Democracy, Laguna Beach, CA.
- Almquist, Z. W. and C. T. Butts (2011). *Spatial Network Models for Predicting Regional Identification*. Poster presentation at the Complex Networks: Dynamics on Networks Workshop (SAMSI), Research Triangle Park, NC.
- Almquist, Z. W. and C. T. Butts (2011). *Contending Parties: A Logistic Choice Analysis of Inter and Intra-group Blog Citation Dynamics in the 2004 US Presidential Election*. The 31st Sunbelt Network Conference (INSNA), St. Pete Beach, FL.
- Almquist, Z. W. and C. T. Butts (2010). *Contending Parties: A Logistic Choice Analysis of Inter and Intra-group Blog Citation Dynamics in the 2004 US Presidential Election*. QMSS 2 Conference on Power, Decision Making and Social Networks, University College Dublin, Ireland.
- Almquist, Z. W. (2010). *Cognitive Models of Group Identification: The Case of Regional Self-Identification*. The 105th Annual Meeting of the American Sociological Association: Paper Session in Math Soc: New Developments in Mathematical Sociology, Atlanta, GA.
- Almquist, Z. W. (2010). *US Census Spatial and Demographic Data in R*. useR!2010, National Institute of Standards and Technology, Gaithersburg, MD.
- Almquist, Z. W. and C. T. Butts (2010). *Predicting Regional Self-Identification from Spatial Network Models*. The 30th Sunbelt Network Conference (INSNA), Riva Del Garda, Italy.
- Almquist, Z. W., R. M. Acton, and C. T. Butts (2009). *Dynamic Modeling of Organizational Coordination over the Course of the Katrina Disaster*. The 29th Sunbelt Network Conference (INSNA), San Diego, CA.
- Almquist, Z. W. (2008). *Multi-State Demographic Projections of Leipzig, Germany*. IIASA YSSP 2008 Late Summer Workshop, Laxenburg, Austria.

Software and data

- Almquist, Z. W., N. E. Helwig, and Y. You (2017-present). *CoCHomeless: R package with County level counts of the Homeless in the US from 2005 to 2017*. Github (<https://github.com/SSDALab/CoCHomeless>).
- Mallik, A. and Z. W. Almquist (2017-present). *dnr: Simulation, Estimation and Forecasting for Dynamic Networks*. Github (<https://github.com/SSDALab/dnr>).
- Butts, C. T., J. R. Hipp, N. N. Nagle, A. Boessen, R. M. Acton, C. S. Marcum, Z. W. Almquist, E. J. Smith, and J. Lickfett (2014). *The American Social Fabric Study*. NCASD Lab (<http://www.ncasd.org/>).
- Butts, C. T. and Z. W. Almquist (2013-present). *networkSpatial: Tools for the Generation and Analysis of Spatially-embedded Networks*. NCASD Lab (<http://www.ncasd.org/>).
- Butts, C. T., A. Leslie-Cook, P. N. Krivitsky, S. Bender-deMoll, Z. Almquist, D. R. Hunter, L. Wang, K. Li, S. M. Goodreau, and M. Morris (2013-present). *networkDynamic: Dynamic Extensions for Network Objects*. CRAN (<http://cran.r-project.org>) and statnet (<http://statnet.org>) [2012-present, contributing member to statnet].
- Leslie-Cook, A., Z. W. Almquist, P. N. Krivitsky, S. Bender-deMoll, D. R. Hunter, M. Morris, and C. T. Butts (2012-2013). *networkDynamic: Dynamic Extensions for Network Objects*. CRAN (<http://cran.r-project.org>) and statnet (<http://statnet.org>) [2012-present, contributing member to statnet].
- Almquist, Z. W. (2009-present). *UScensus{1990, 2000, 2010}: The US Census Suite of R Packages*. CRAN (<http://cran.r-project.org>) and NCASD Lab (<http://lakshmi.calit2.uci.edu/census2000/>).

Teaching experience

Positions

2013-present	Assistant Professor, Department of Sociology	UMN
2013-present	Assistant Professor, School of Statistics	UMN
2007-2008	Teaching Assistant, School of Social Science	UCI
2006-2007	Teaching Assistant, Department of Statistics	NU
2004-2005	Undergraduate Teaching Assistant, Dept of Mathematics	UO

Pedagogical Training

2015-2016	Early Career Teaching Program	UMN
2015	Diversity in the Curriculum: Transforming Your Syllabus	UMN

Courses taught

Sociology Courses					
2018	U	Soc	Social Networking: Theories and Methods	UMN	(1)
2018	U	Soc	Social Statistics	UMN	(1)
2017	U	Soc	Sociology of Neighborhoods	UMN	(1)
2015	G	Soc	Social Network Analysis: Theory and Methods	UMN	(1)
2014-2015	G	Soc	Advanced Social Statistics	UMN	(2)
Statistics Courses					
2018	U	Stat	Introduction to Statistical Computing	UMN	(1)
2017	U	Stat	Predictive Modeling of Spacial, Textual and Network Data	UMN	(1)
2014-2015	U/G	Stat	Sampling Methodology in Finite Populations	UMN	(2)
2013	U	Stat	Data Analysis	UMN	(1)

Workshops

06/2018	Week long course in Social Network Analysis, Epidemiology and Population Health Summer Institute, Columbia University, New York City, NY.
05/2017	Exponential Random Graph Models, Social Networks and Health Workshop, Duke University, Durham, NC.
11/2016	Spatial Analysis and Mapping Workshop, iSchool Data Science Program, University of Washington, Seattle.
01/2016	A Brief Introduction to Social Network Analysis: Descriptives to Statistical Inference, Inequality & Methods Workshop, MPC, UMN.

Courses assisted (TA'd)

2008	U	Soc/Econ	Business Decisions	UCI	(1)
2008	U	Econ	Probability & Statistics	UCI	(1)
2007	U	SocSci	Probability & Statistics	UCI	(1)
2006-2007	U	Stat	Intro to Statistics	NU	(3)
2004-2005	U	Math	University Mathematics I/II	UO	(4)

Mentorship and advisement

Current Advisees (PhD)

<i>Present</i>	Yang Yang	Statistics	UMN
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PhD

<i>Present</i>	Haema Nilakanta	PhD Committee	Statistics	UMN
2017	Liqi (Kevin) Huang	Adv Committee	Sociology	UMN
2016	Abhishek Nandy	PhD Committee	Statistics	UMN
2016	Dennie Kim	Adv Committee	Business	UMN
2016	Yang Yang	Adv Chair	Statistics	UMN
2015	Martin Bezener	PhD Committee	Statistics	UMN
2014	Abhishek Nandy	Adv Committee	Statistics	UMN
MS				
2016	Yun You	Chair	Statistics	UMN
2016	Robin Shaw	Committee	Design	UMN
2016	Yang Yang	Chair	Statistics	UMN
2016	Lu Yuan	Chair	Statistics	UMN
2016	Tao Xu	Chair	Statistics	UMN
2015	Amy Jurvis	Chair	Statistics	UMN
2015	Xiaomeng Chen	Committee	Statistics	UMN
2014	Kim Sungjin	Chair	Statistics	UMN
2014	Wen Fan	Committee	Statistics	UMN
2014	Zhongnan Jin	Committee	Statistics	UMN
2014	Xiao Zhong	Committee	Statistics	UMN

Research experience

2013-Present	Assistant Professor	University of Minnesota
	Department of Sociology and School of Statistics	
2017-2018	Visiting Scholar	Stanford University
	Graduate School of Education	
2016-2017	Visiting Scholar	University of Washington
	eScience Institute and Center for Statistics and the Social Sciences	
2009-2013	Graduate Student Researcher	University of California, Irvine
	PI Carter T Butts, Departments of Sociology, Statistics and EECS	
06-09/2008	Young Scientist Summer Program	IIASA, Laxenburg, Austria
	Sponsoring Groups: World Population Program and Health and Global Change Project	
06-09/2007	Research Analyst/Summer Internship	NORC at the University of Chicago
	Division of Statistics and Methodology	

Service to the profession

2018-2021	Secretary-Treasurer (<i>Elected</i>)	ASA Section on Math Sociology
2018	Session Chair (Network Analysis in Demography)	Population Association of America
2018	Organizer (Network Analysis in Demography)	Population Association of America
2017	Presider (Social Network Session)	ASA
2017	Co-Organizer (Social Network Session)	ASA
2017	Committee Member, GradPaper Award	ASA Section on Math Sociology
2017	Committee Member/Organizer	ASA Methodology Mid-year Conf.
2017	Facilitator, Big Data & Human Services	Metrolab, UW and Seattle City Hall
2016	Organizer WS on Activity Networks	SocInfo2016, Seattle, WA
2016	Presider Regular Session	ASA Section on Social Networks
2016	Committee Clifford C. Clogg Award	ASA Section on Methodology
2015	Committee Member/Organizer	ASA Methodology Mid-year Conf.
2015	Presider Regular Session	ASA Section on Methodology

2015	Organizer Regular Session	ASA Section on Methodology
2015	Session Chair (Statistical Demography)	Population Association of America
2014-2015	Organizer (Statistical Demography)	Population Association of America
2014-2015	Program Committee	Population Association of America
2014-2015	Committee Member, Diss. Award	ASA Section on Math Sociology
2013-2014	Student Council Member (<i>Elected</i>)	ASA Section on Math Sociology
2011	Panel Chair	4th Annual PolNets Conference

Service to the university

2013-present	CLA Quantitative Methods Collaborative	CLA	UMN
2011	Session Chair, IMBS Graduate Student Conference	IMBS	UCI
2011	Grad Div Panelist	GRC	UCI

Service to the department

2017-2018	Committee Member, Graduate Affairs & Admissions	Sociology	UMN
2016-2017	Committee Member, PT&S Committee	Sociology	UMN
2015-2018	Committee Member, Fellowship Committee	Statistics	UMN
2014-2016	Committee Member, Undergrad Affairs Committee	Sociology	UMN
2014-2015	Seminar Coordinator	Statistics	UMN
2014-2015	Sub-Committee Member, Undergraduate Curriculum	Statistics	UMN
2013-2016	Committee Member, Training (Pop Studies Minor)	MPC	UMN
2013-2014	Committee Member, Graduate Affairs & Admissions	Sociology	UMN
2013-2014	Committee Member, MS Curriculum Committee	Statistics	UMN
2013-2014	Committee Member, Computing	Statistics	UMN
2003-2005	Peer Advisor	Math	UO

Editorial activities

2017 - present	Editorial Board	<i>Social Networks</i>
2018 - present	Editorial Board	<i>Sociological Methodology</i>

Referee activities

American Journal of Sociology	American Sociological Review	JASA
Biostatistics	Journal of Applied Statistics	Cognitive Science
Journal of Comp Family Studies	Computer Networks	Demographic Research
Environmental Management	Field Methods	Journal of Gerontology: Soc Sci
J. of Health and Social Behavior	Network Science	PLOS One
Political Analysis	Science	Social Networks
Social Problems	Social Science Research	Journal of Social Structure
Sociological Methodology	Soc. Methods & Research	Socius
Springer Com Comp & Info Sci	Statistica Sinica	Statistical Methods in Medical Research
Journal of Statistical Software		

Other reviewer activities

Proposal Reviewer, Network Science Division, Army Research Office
 Proposal Reviewer, SBE (MMS, Sociology, GSSP), National Science Foundation
 Reviewer, John Fox and Sanford Weisberg's book *An R Companion to Applied Regression (potential 3rd ed)*

Professional memberships

2007-present American Association for Public Opinion Research
2009-present American Sociological Association
2013-present American Statistical Association
2009-present International Network for Social Network Analysis
2007-present Population Association of America
2012-present Sigma Xi