

<b>Department of Sociology</b> 211 Savery Hall University of Washington Seattle, WA 98195	Phone: (206) 543-7290 Office: Savery Hall 231 Email: zalmquist@uw.edu
URL: <a href="http://depts.washington.edu/zalmquist">http://depts.washington.edu/zalmquist</a>	

## 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

2022 - Present	University of Washington – Seattle
	Associate Professor, Department of Sociology
	Adjunct Associate Professor, Department of Statistics (courtesy)
	Senior Data Science Fellow, eScience Institute

## Affiliations at the University of Washington

Faculty Affiliate	The Center for Studies in Demography and Ecology
Faculty Affiliate	Urban@UW
Faculty Affiliate	The Center for Statistics and the Social Sciences
Faculty Affiliate	The Center for Environmental Politics
Faculty Affiliate	West Coast Poverty Center

## Past Appointments

2020 - 2024	University of Washington – Seattle
	Training Core Director, Center for Studies in Demography and Ecology
2020 - 2022	University of Washington – Seattle
	Assistant Professor, Department of Sociology
2018 - 2020	Facebook, Inc - Menlo Park, CA
	Research Scientist, Demography and Survey Science
2013 - 2018	University of Minnesota – Twin Cities
	Assistant Professor, Department of Sociology (joint)
	Assistant Professor, School of Statistics (joint)

## Past Affiliations

2019 - 2020	Affl. Assist. Prof.	Department of Sociology	University of Washington
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

2017 - 2018	IonE Associate	Institute on the Environment (IonE)	University of Minnesota
2017 - 2018	Faculty Affiliate	Digital Technology Center	University of Minnesota
2014 - 2018	Faculty Affiliate	Data Science Program	University of Minnesota
2013 - 2018	Faculty Affiliate	Minnesota Population Center	University of Minnesota
2013 - 2018	Faculty Affiliate	Life Course Center	University of Minnesota
2009 - 2013	GSR	Sociology	University of California, Irvine
2008	YSSP Researcher	World Population & Global Health	IIASA
2007	Research Analyst	Div. Stat. and Methodology, NORC	University of Chicago

## Research interests

Data science, computational social sciences, social network analysis, public health, methodology, demography, statistics, and housing and homelessness

## Awards and honors

- 2023 Best Poster Award, Population Association of America for *Political and Educational Dynamics in Religious Group's Mask Resistance Under COVID-19*. (With June Yang and James H. Jones).
- 2022 NSF Early Career Development (CAREER) Award.
- 2021 Leo Goodman Award, American Sociological Association's Section on Methodology.
- 2018 Best Paper Award from the 10th International Conference on Social Computing and Social Media (HCII 2018) for *Stay Connected and Keep Motivated: Modeling Activity Level of Exercise in an Online Fitness Community*. (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 *Let's Workout! Exploring Social Exercise in an Online Fitness Community*. (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) Award.
- 2013 Geoffrey Tootell Mathematical Sociology Outstanding Dissertation-in-Progress Award, American Sociological Association's Section on Mathematical Sociology for *Vertex Processes in Social Networks*.
- 2012 Honorable Mention (2<sup>nd</sup> 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 Clark Honors College, Univ. of Oregon. Honors thesis: *Lower Tail Probabilities and the Gaussian Process*.

## Publications

### Peer-reviewed articles

Almquist, Z. W., I. Kahveci, A. Hazel, O. Kajfasz, J. Rothfolk, C. Guilmette, M. Anderson, L. Ozeryansky, and A. Hagopian (2024). Innovating a Community-driven Enumeration and Needs Assessment of People Experiencing Homelessness: A Network Sampling Approach for the HUD-Mandated Point-in-Time Count. *American Journal of Epidemiology*.

- Anderson, M., A. Hazel, J. M. Perkins, and Z. W. Almquist (2024). Identity and Generosity Norms Among People Experiencing Homelessness in Nashville, TN: A Dictator Game Experiment. *International Journal on Homelessness*.
- Ford, J. D., D. Marengo, M. Olf, C. Armour, J. D. Elhai, Z. W. Almquist, and E. S. Spiro (2022). Temporal Trends in Health Worker Social Media Communication During the COVID-19 Pandemic. *Research in Nursing & Health* 45(6).
- Thomas, L. J., P. Huang, F. Yin, J. Xu, Z. W. Almquist, J. R. Hipp, and C. T. Butts (2022). Geographical Patterns of Social Cohesion Drive Disparities in Early COVID Infection Hazard. *Proceedings of the National Academy of Sciences* 119(22).
- Anderson, M. C., A. Hazel, J. M. Perkins, and Z. W. Almquist (2021). The Ecology of Unsheltered Homelessness: Environmental and Social-Network Predictors of Well-Being among an Unsheltered Homeless Population. *International Journal of Environmental Research and Public Health* 18(14), 7328.
- Abel, G. J., J. DeWaard, J. Trang Ha, and Z. W. Almquist (2021). The Form and Evolution of International Migration Networks, 1960-2015. *Population, Space and Place* 27(3), 1–15.
- Bagozzi, B. E., D. Berliner, and Z. W. Almquist (2021). When Does Open Government Shut? Predicting Government Responses to Citizen Information Requests. *Regulation & Governance* 15(2), 280–297.
- Jones, J. H., A. Hazel, and Z. W. Almquist (2020). Transmission-Dynamics Models for the SARS Coronavirus-2. *American Journal of Human Biology* 32(5), 1–14.
- Thomas, L. J., P. Huang, F. Yin, X. I. Luo, Z. W. Almquist, J. R. Hipp, and C. T. Butts (2020). Spatial Heterogeneity Can Lead to Substantial Local Variations in COVID-19 Timing and Severity. *Proceedings of the National Academy of Sciences* 117(39), 24180–24187.
- Almquist, Z. W. and B. E. Bagozzi (2020). Automated Text Analysis for Understanding Radical Activism: The Topical Agenda of the North American Animal Liberation Movement. *Research and Politics* 7(2), 1–8.
- Almquist, Z. W. (2020). 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* 47(3), 523–540.
- Almquist, Z. W., N. E. Helwig, and Y. You (2020). Connecting Continuum of Care Point-in-Time Homeless Counts to United States Census Areal Units. *Mathematical Population Studies* 27(1), 46–58.
- Mallik, A. and Z. W. Almquist (2019). Stable Multiple Time Step Simulation/Prediction from Lagged Dynamic Network Regression Models. *Journal of Computational and Graphical Statistics* 28(4), 967–979.
- Almquist, Z. W., S. Arya, L. Zeng, and E. S. Spiro (2019). Unbiased Sampling of Users from (Online) Activity Data. *Field Methods* 31(1), 23–38.
- Almquist, Z. W. and B. E. Bagozzi (2019). Using Radical Environmental Texts to Uncover Network Structure and Network Features. *Sociological Methods & Research* 48(4), 905–960.
- 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 (2019). “Friending” in Online Fitness Communities: Exploring Activity-Based Online Network Structure. In: *Proceedings of the 52nd Hawaii International Conference on System Sciences*, pp.2822–2831.
- Zeng, L., Z. W. Almquist, and E. S. Spiro (2018). Stay Connected and Keep Motivated: Modeling Activity Level of Exercise in an Online Fitness Community. In: *Social Computing and Social Media. Technologies and Analytics*. Ed. by G. Meiselwitz. Vol. 10914. Lecture Notes in Computer Science. Springer International Publishing, pp.137–147.
- 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

- Sutton, A. and Z. W. Almquist (2023). “Small Area Estimation for Demographic Data”. In: *Recent Trends in Demographic Data*. Ed. by P. M. Eloundou-Enyegue. IntechOpen.
- Almquist, Z. W., C. Allen, and I. Kahveci (2023). “Computational Demography and Health”. In: *Handbook of Computational Social Science*. Ed. by T. Yasseri. Edward Elgar Publishing.
- 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.

### Policy and expert-witness reports

- Almquist, Z. W. (2023). Expert witness report for Civil Action No. 20-cv-02189. *US District Court of Minnesota*.
- Almquist, Z. W. (2022). Expert witness report for No. 22-2-00387-37. *Superior Court of the State of Washington in and for the County of Whatcom*.
- Giraudy, E., P. Maas, S. Iyer, Z. Almquist, J. Schneider, and A. Dow (2021). Measuring long-term displacement using Facebook data. *IDMC Global Rep. Internal Displacement (GRID)*, Geneva, Switzerland, Tech. Rep.

## 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.

## Submitted articles

- Yang, J., Z. W. Almquist, and J. H. Jones (2023). *Political and Educational Dynamics in Religious Group's Mask Resistance under COVID-19*.
- Sutton, A., Z. W. Almquist, and J. H. Jones (2023). *The political ecology of mask-wearing and presidential candidate preference in the United States: a hierarchical analysis of COVID-19 social behavior*.
- Almquist, Z. W., T. D. Nguyen, M. Sorensen, X. Fu, and N. D. Sidiropoulos (2021). *Uncovering migration systems through spatio-temporal tensor co-clustering*. arXiv: 2112.15296 [stat.AP].
- Neal, Z. P., Z. Almquist, J. Bagrow, A. Clauset, J. Diesner, E. Lazega6, J. Lovato, J. Moody, T. P. Peixoto, Z. Steinert-Threlkeld, and A. S. Teixeira1 (2024). Recommendations for sharing network data and materials. *R&R at Network Science*.
- Almquist, Z. W., B. E. Bagozzi, D. Blinova, and Z. Brown (2024). In Search for Common Ground: Exploring Value Networks at the UNFCCC Climate Change Talks. *Submitted to Network Science*.
- Rice, A., L. P. Casiraghi, C. Gildee, Z. W. Almquist, A. Hagopian, M. A. Martin, and H. O. de la Iglesia (2024). Sleep in People Experiencing Homelessness Under Different Conditions and Seasons.

## Working papers

- Almquist, Z. W., A. Hazel, O. Kajfasz, J. Rothfolk, C. Guilmette, M. Anderson, L. Ozeryansky, and A. Hagopian (2023). Network Sampling Methods for Estimating Social Networks, Population Percentages, and Totals of People Experiencing Unsheltered Homelessness. *arXiv preprint arXiv:2309.03875*.
- Maas, P., Z. W. Almquist, E. Giraudy, and J. Schneider (2020). Using social media to measure demographic responses to natural disaster: Insights from a large-scale Facebook survey following the 2019 Australia Bushfires. *arXiv preprint arXiv: 2008.03665*.
- Nilakanta, H., Z. W. Almquist, and G. L. Jones (2019). Ensuring Reliable Monte Carlo Estimates of Network Properties. *arXiv preprint arXiv:1911.08682*.
- Mallik, A. and Z. W. Almquist (2017). *Dynamic Network Regression: The dnr package*.
- 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

#### University of Washington

- |           |   |
|-----------|---|
| 2022-2027 | Almquist, Z.W. (PI). "CAREER: Measuring and Modeling the Multi-Modal Networks and Demographics of People Experiencing Homelessness." Grant #SES-2142964, NSF Social & Economic Sciences (SES), Sociology. \$500,000.  |
| 2020-2024 | Curran, S.R. (PI), McCormick, T. (Co-PI), Wakefield, J. (Co-PI), Almquist, Z. (Co-PI). "T32 Data Science for Demographic & Population Health Training at the University of Washington." NIH NICHD Grant #1T32HD101442-01. \$1,824,000.  |
| 2021-2023 | Curran, S.R. (PI), McCormick, T. (Co-PI), Wakefield, J. (Co-PI), Almquist, Z. (Co-PI). "T32 Data Science for Demographic & Population Health Training at the University of Washington." NIH NICHD Grant #3T32HD101442-02S1. \$206,716   |
| 2020-2022 | Jones, J.H. (PI), Kline, M. (Co-PI), Smaldino, P. (Co-PI), Moya, C. (Co-PI), and Almquist, Z.W. (Co-PI). "RAPID: Coupled Contagion, Behavior-Change, and the Dynamics of Pro and Anti-Social Behavior During the COVID-19 Pandemic." Grant #BCS-2028160, NSF, Behavioral and Cognitive Sciences (BCS), Cultural Anthropology (CA). \$233,283. |
| 2019-2022 | Sidiropoulos, N. (PI), Fu, X. (Co-PI), and Almquist, Z. W. (Co-PI). "Geometric Factorization Tools for Community Mining." Award #W911NF-19-1-0407, Army Research Office (ARO). \$550,000.   |

*University of Minnesota*

- 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.

*University of California, Irvine*

- 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***University of Washington*

- 2024-2026 Almquist, Z.W. (Lead-PI), Hagopian, A., Hebert, P., McCormick, T., Yang, J., Kajfasz, O., Rothfolk, J., Carey, C. "Community-driven Enumeration and Needs Assessment of People Experiencing Homelessness: A high-frequency method for enumeration and needs assessment of the unsheltered population of people experiencing homelessness Community-driven Enumeration and Needs Assessment of People Experiencing Homelessness: A high-frequency method for enumeration and needs assessment of the unsheltered population of people experiencing homelessness." University of Washington Population Health Initiative's Tier 3 Pilot Grant Program with support from CSDE and Sociology. \$217,593.
- 2022-2023 Hagopian, A., Kajfasz, O., Zhao, B., Hebert, P., Almquist, Z.W., Luo, G. and Dobra, A. "Innovating better methods to enumerate individuals experiencing homelessness." The University of Washington Population Health Initiative's Tier 2 Pilot Grant with support from CSDE and the Department of Health Systems and Population Health. \$106,822.
- 2022-2023 de la Iglesia, H., Martin, M. and Almquist, Z.W. "Sleep health in people experiencing homelessness." University of Washington Population Health Initiative's Tier 1 Pilot Grant Program with support from CSDE and the Department of Biology. \$38,468.91.
- 2022-2023 Williams, N., Almquist, Z.W., Crowder, K., Curran, S., Ellis, M. Herting, J., and Louie, P. "Feasibility Study for Puget Sound Longitudinal Health and Wellbeing Data Project: Sound Data for a Healthy Sound". Royalty Research Fund (RRF), University of Washington. \$39,192.
- 2020-2022 Almquist, Z.W. "The Quantified Self: An introduction to the societal implications of self-tracking." Data Science Education Initiative for the Social Sciences, Humanities, Arts, and Other Domains. Grant for Data Science Minor - Proposal for Course Development, University of Washington. \$20,000.

*University of Minnesota*

- 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.  
*University of California, Irvine/Northwestern University*
- 2008-2009 Social Science Merit Fellowship, University of California, Irvine.
- 2005-2006 University Fellowship, Northwestern University.

### Seminars and invited presentations

- Almquist, Z. W. (2023). *Big and Small Data for Understanding the Demographics and Health of People Experiencing Homelessness in King County*. Distinguished Speaker series for the Center for Computational Social Science and Department of Sociology, UBC, Vancouver, BC.
- Almquist, Z. W. (2023). *Big and Small Data for Improving the Measurement and Lives of People Experiencing Homelessness*. Center for Networks and Relational Analysis, UCI, Irvine, CA.
- Almquist, Z. W. (2023). *Big and Small Data for Improving the Measurement and Lives of People Experiencing Homelessness*. Center for Social Data Analytics, Pennsylvania State University, State College, PA.
- Almquist, Z. W. (2023). *A Qualitative and Quantitative PIT Count using Respondent Driven Sampling (RDS): Understanding and Counting Unsheltered Homelessness in King County*. California Center for Population Research, UCLA, LA, CA.
- McQuarter, R., Z. W. Almquist, and C. Guilmette (2022). *Qualitative PIT Count using Respondent Driven Sampling (RDS): Understanding Unsheltered Homelessness in King County*. Plenary Talk at The National Human Services Data Consortium, Seattle WA.
- Almquist, Z. W. (2021). *Large-scale Spatial Network Models for modeling disease and information passing for people experiencing homelessness in metropolitan areas*. Computational Social Science Forum, University of California, Berkeley.
- Almquist, Z. W. (2021). *Using social media to measure evacuation responses to natural disasters: Insights from a large-scale Facebook survey following the 2019 Australia Bushfires*. Center for Demography and Social Analysis, University of California, Irvine (virtual).
- Almquist, Z. W. (2021). *Using social media to measure evacuation responses to natural disasters: Insights from a large-scale Facebook survey following the 2019 Australia Bushfires*. Rural Drug Addiction Research Center, University of Nebraska-Lincoln (virtual).
- Almquist, Z. W. (2020). *Networks of Negotiation for International Climate Change Cooperation*. Social Network Research Group, University of California, Irvine (virtual).
- Almquist, Z. W. (2019). *Disaster Maps and a Survey Comparison of Displaced Populations in the Cyclone Fani Region 6 Months after Landfall*. Center for Studies in Demography and Ecology Seminar Series, University of Washington, Seattle.
- Almquist, Z. W. (2019). *Modeling the Social Support Networks of the Homeless*. Computational Social Science Seminar, Facebook, Menlo Park.
- Almquist, Z. W. (2018). *Modeling the Social Support Networks of the Homeless*. Department of Sociology, University of Washington, Seattle.
- 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*. BIOS/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

- Kahveci, I., D. Perrotta, J. H. Jones, and Z. W. Almquist (2023). *Evaluating online recruitment in COVID-19 prosocial behavior surveys: Comparison of social media sampling with probability sampling*. Paper Session in Statistical Methods for Covid-19 Data, American Public Health Association, Atlanta, GA.
- Almquist, Z. W., P. Hebert, and A. Hagopian (2023). *Measuring and modeling social networks of the unhoused population in king county*. Poster Session, American Public Health Association, Atlanta, GA.
- Sutton, A., A. Hagopian, W. Walker, K. Salinas, B. Zhao, P. Hebert, and Z. W. (2023). *The Impact of Encampment Dispersal on Mobility and Access to Support Services among Individuals Experiencing Homelessness in Seattle-King County, Washington*. The 2023 Sunbelt Network Conference (INSNA), Portland, OR.
- Bagozzi, B. and Z. W. Almquist (2023). *Networks of Negotiation for International Climate Change Cooperation*. Presentation in Statistical on networks: inference and applications in big data Session, Joint Statistical Meetings, Toronto, ON Canada.
- Kahveci, I., D. Perrotta, J. H. Jones, and Z. W. Almquist (2023). *Evaluating Online Recruitment in COVID-19 Prosocial Behavior Surveys: Comparison of Social Media Sampling with Probability Sampling*. The 118th Annual Meeting of the American Sociological Association: Medical Sociology Roundtable Session.
- Almquist, Z. W., L. Ozeryansky, M. Anderson, A. Hazel, and A. Hagopian (2023). *Counting the number of people experiencing homelessness in the United States (US) is a major challenge*. The 2023 Sunbelt Network Conference (INSNA), Portland, OR.



- Ozeryansky, L. and Z. W. Almquist (2023). *Ukrainian Refugee Health in Norway: Gendered Care-Seeking and Perceptions of Support*. Poster Presentation at The 2023 Annual Meeting of the Population Association of America, New Orleans, LA.
- Sutton, A., A. Hagopian, W. Walker, K. Salinas, B. Zhao, P. Hebert, and Z. W. Almquist (2023). *The Impact of Encampment Dispersal on Mobility and Access to Support Services among Individuals Experiencing Homelessness in Seattle-King County, Washington*. Poster Presentation at The 2023 Annual Meeting of the Population Association of America, New Orleans, LA.
- Ramos, A., R. Weiss, and Z. W. Almquist (2023). *Measuring Within and Between Group Inequality in Infant Mortality Over Time: A Bayesian Approach With Application in India*. The 2023 Annual Meeting of the Population Association of America, New Orleans, LA.
- Yang, J., Z. W. Almquist, and J. H. Jones (2023). *Political and Educational Dynamics in Religious Group's Mask Resistance under COVID-19*. Poster Presentation at The 2023 Annual Meeting of the Population Association of America, New Orleans, LA.
- Almquist, Z. W., L. Ozeryansky, M. Anderson, and A. Hagopian (2023). *Network Sample Data Methods for Estimating Social Networks, Population Percentages and Totals for People Experiencing Homelessness*. The 2023 Annual Meeting of the Population Association of America, New Orleans, LA.
- Nova, E., Z. W. Almquist, and J. H. Jones (2023). *Pro-Social Behaviors and Social Media Usage During the COVID-19 Pandemic*. The 2023 Annual Meeting of the Population Association of America, New Orleans, LA.
- Almquist, Z. W., A. Hagopian, L. Ozeryansky, C. Weare, G. Pruss, B. Zhao, and P. Hebert (2022). *Respondent Driven Sampling for Improved Point-in-Time Annual Count: A Case Study in King County, WA*. Paper Session in Understanding and Addressing Awareness of Prevalence and Inequities among Homeless Populations, American Public Health Association, Boston, MA.
- Kahveci, I., Z. W. Almquist, Z. Hsiao, K. Koltai, and E. S. Spiro (2022). *Talking about the Jab: Medical Professionals' Expressions of Vaccine Hesitancy Online*. The 2022 Annual Meeting of the Population Association of America, Atlanta, GA.
- Sutton, A., Z. W. Almquist, A. Hazel, M. Kline, P. Smaldino, C. Moya, and J. H. Jones (2022). *Adherence to mask-wearing and trust in government: a Bayesian hierarchical analysis of COVID-19 social behavior in the United States*. The 2022 Annual Meeting of the Population Association of America, Atlanta, GA.
- Almquist, Z. W., T. D. Nguyen, M. Sorensen, X. Fu, and N. D. Sidiropoulos (2022). *Uncovering migration systems through spatio-temporal tensor co-clustering*. The 2022 Annual Meeting of the Population Association of America, Atlanta, GA.
- Thomas, L. J., P. Huang, F. Yin, X. I. Luo, Z. W. Almquist, J. R. Hipp, and C. T. Butts (2021). *Rising Floodwaters: Spatial Social Network Effects on COVID-19 Outcomes by Race and Ethnicity*. The 116th Annual Meeting of the American Sociological Association: Regular Paper Session in Social Networks, Virtual Conference.
- Almquist, Z. W. and B. E. Bagozzi (2021). *Networks of Negotiation for International Climate Change Cooperation*. The 116th Annual Meeting of the American Sociological Association: Round Table: Environmental Governance, Virtual Conference.
- Maas, P., Z. W. Almquist, E. Giraudy, and J. Schneider (2021). *Using social media to measure demographic responses to natural disaster: Insights from a large-scale Facebook survey following the 2019 Australia Bushfires*. Presentation at The 2021 Annual Meeting of the Population Association of America, Virtual Conference.
- Almquist, Z. W. and B. E. Bagozzi (2020). *Automated Text Analysis for Understanding Activism: Topical Agenda of the North American Animal Liberation Movement*. The 115th Annual Meeting of the American Sociological Association: Paper Session in Mathematical Sociology, Virtual Conference.
- Almquist, Z. W. and B. Bagozzi (2020). *Networks of Negotiation for International Climate Change Cooperation*. The 40th Sunbelt Network Conference (INSNA), Virtual Conference.
- Almquist, Z. W. and B. Barlett (2019). *Assessing the Informational Comparison of 15 Different Relationship Questions over 12 Countries and 9 Languages*. The 39th Sunbelt Network Conference (INSNA), Montreal, Quebec, Canada.
- Hazel, A., Z. W. Almquist, and J. H. Jones (2018). *Dynamic network regression models reveal spatial-temporal dimensions in sexual networks in rural Namibia: Implications for the epidemiology of sexually transmitted infections*. American Anthropological Association Annual Meeting, San Jose, CA.
- Zeng, L., Z. W. Almquist, and E. S. Spiro (2018). *Gender Differences in Social Exercise in an Online Fitness Community*. Poster presentation at 2018 International Conference on Computational Social Science, Northwestern University, Evanston, IL.

- 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.
- 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 33nd 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 33nd 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, Proximity, 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*. CRAN (<https://cran.r-project.org/>) and 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

2022 -	Associate Professor, Department of Sociology	UW
2020 - 2022	Assistant Professor, Department of Sociology	UW
2013 - 2018	Assistant Professor, Department of Sociology	UMN
2013 - 2018	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

2020	Faculty Fellows Program	UW
2015 - 2016	Early Career Teaching Program	UMN
2015	Diversity in the Curriculum: Transforming Your Syllabus	UMN

**Courses taught****Sociology Courses**

2023	U	Soc	Housing and Homelessness in the US	UW	(1)
2021, 2023	U	Soc	The Quantified Self	UW	(3)
2020 - 2024	U	Soc	Data and Society	UW	(5)
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)
2023	G	Soc	Research Methods in Demography	UW	(1)
2022	G	Soc	Data Science, Population Processes and Health	UW	(1)
2020	G	Soc	Introduction to Applied Social Statistics	UW	(1)
2020	G	Soc	Quantitative Techniques in Sociology	UW	(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	Modeling of Spacial, Text & Network Data	UMN	(1)
2013	U	Stat	Data Analysis	UMN	(1)
2023	G	CSSS	Research Methods in Demography	UW	(1)
2020	G	CSSS	Quantitative Techniques in Sociology	UW	(1)
2014 - 2015	G	Stat	Sampling Methodology in Finite Populations	UMN	(2)

**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)

**Workshops**

2019 - 2020	Five-hour long workshop on survey weighting for non-response bias for Learn Facebook: Research Methods, Facebook, Menlo Park, CA.				
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.				

**Mentorship and advisement****Data Science mentorship**

2024 eScience Data Science for Social Good Program, UW

Almquist, Z.W. (Project Lead and Mentor)

The UW Data Science for Social Good summer program brings together students, stakeholders, data scientists, and domain researchers to work on focused, collaborative projects for societal benefit.

2022 Google Summer of Code, Joint UW and UCLA

Almquist, Z.W. (UW) (Co-mentor) and Fultz, N. (UCLA) (Co-mentor)

Google Summer of Code is a global, online program focused on bringing new contributors into open-source software development. GSoC Contributors work with an open-source organization on a 12+ week programming project under the guidance of mentors.

**Graduate student mentorship****Graduated Advisees (PhD)**

2024	Junhe Yang	Sociology	UW	(NIH T32 DSDT Fellow)
2023	Aja Sutton	Geography	UW	(NIH T32 DSDT Fellow)

**Current Advisees (PhD)**

<i>Present</i>	Ihsan Kahveci	Sociology	UW	
<i>Present</i>	Elizabeth Mendez-Nova	Sociology	UW	(NIH T32 DSDT Fellow)
<i>Present</i>	Zach Brown	Sociology	UW	
<i>Present</i>	Larisa Ozeryansky	Interdisciplinary Studies	UW	

**PhD Committees (PhD)**

2022	Li Zeng	iSchool	UW
2021	MC Anderson	Earth System Science	Stanford
2016	Abhishek Nandy	Statistics	UMN
2015	Martin Bezener	Statistics	UMN

**PhD Advancement**

2022	Peter Gao	Adv Committee	Statistics	UW
2021	Jackson Monroe	Adv Committee	Economics	UW
2020	Ian Kennedy	Adv Committee	Sociology	UW
2017	Haema Nilakanta	Adv Committee	Statistics	UMN
2017	Liqi (Kevin) Huang	Adv Committee	Sociology	UMN
2016	Dennie Kim	Adv Committee	Business	UMN
2016	Yang Yang	Adv Chair	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

**Undergraduate student mentorship**

## Undergraduate Honors Students

2022	Wei Yang	Chair	Sociology	UW
2021	Rachel Kisela	Chair	Sociology	UW

**Research experience**

2022 -	Associate Professor	University of Washington
	Department of Sociology	
2020 - 2022	Assistant Professor	University of Washington
	Department of Sociology	
2018 - 2020	Research Scientist	Facebook
	Demography and Survey Science	
2013 - 2018	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**

2024 -	Vice Chair/Chair-Elect ( <i>Elected</i> )	APHA Caucus on Homelessness
2024	Session Presider (Math Sociology)	American Sociology Association
2024	Session Organizer (Math Sociology)	American Sociology Association
2024	Leo Goodman Award Committee	ASA Methodology Section
2022	Session Chair (Comp. Demography)	Population Association of America
2022	Organizer (Computational Demography)	Population Association of America
2020 - 2023	Webmaster	ASA Section on Math Sociology
2020	Abstract Reviewer	COVID-19 INSNA Sunbelt, Virtual
2018 - 2021	Secretary-Treasurer ( <i>Elected</i> )	ASA Section on Math Sociology
2018	Session Chair (Net Analysis in Demog.)	Population Association of America
2018	Organizer (Net 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

2020-	Curriculum Committee Minor Data Science	CAS	UW
2020-2024	Executive Committee	CSDE	UW
2020-2024	Chair, PRA Demographic Methods	CSDE	UW
2020-2024	Faculty Advisor CDWG	CSDE	UW
2021-2023	Seminar Committee	CSS	UW
2020-2024	Executive Committee	CSDE	UW
2020-2024	MS in Health Metrics Sciences - Steering Committee	CSDE	UW
2020, 2022	Reviewer, UW Royalty Research Fund	ORC	UW
2013 - 2018	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

2020-2024	Committee Member, Graduate Committee (3)	Sociology	UW
2022-2023	Committee Member, Search Committee	Sociology	UW
2022-2023	Committee Member, Executive Committee (2)	Sociology	UW
2020-2021	Committee Member, Executive Committee	Sociology	UW
2020-2023	Committee Member, Awards Committee (3)	Sociology	UW
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

2022 - present	Editor-in-Chief	<i>Journal of Mathematical Sociology</i>
2020 - present	Editorial Board	<i>Sociological Perspectives</i>
2020 - present	Editorial Board	<i>Population and Environment</i>
2017 - present	Editorial Board	<i>Social Networks</i>
2018 - 2020	Editorial Board	<i>Sociological Methodology</i>

### Referee activities

American Journal of Sociology	American Sociological Review	JASA
Journal of Applied Statistics	Biostatistics	Cognitive Science
Journal of Comp Family Studies	JCGS	Computer Networks
Demography	Demographic Research	Environmental Management
Eurasian Geog & Economics	Field Methods	Journal of Gerontology: Soc Sci

J. of Health and Social Behavior	Network Science	PLOS One
Political Analysis	Population Res and Policy Rev	Population & Environment
Journal of Public Policy	Science	Science Advances
Social Forces	Social Networks	Social Problems
Social Psychology Quarterly	Social Science Research	Journal of Social Structure
Sociological Methodology	Soc. Methods & Research	Socius
Springer Com Comp & Info Sci	Statistica Sinica	Stat Methods in Med Research
Journal of Statistical Software		

### Other reviewer activities

External promotion reviewer (2)  
 Panel Reviewer, OAC, AccelNet, National Science Foundation  
 Panel Reviewer, NICHD, National Institute for Health  
 Proposal Reviewer, SBE (MMS, Sociology, GSSP), National Science Foundation  
 Proposal Reviewer, NIH  
 Proposal Reviewer, Network Science Division, Army Research Office  
 Reviewer, John Fox and Sanford Weisberg's book *An R Companion to Applied Regression* (potential 3<sup>rd</sup> ed)

### Professional memberships

2007-present American Association for Public Opinion Research  
 2022-present American Public Health Association  
 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