

Nathan J. Doogan

CONTACT INFORMATION

Ohio Colleges of Medicine
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RESEARCH INTERESTS

Addiction

- Precursors and correlates
- Behavioral and medication-oriented recovery methods

Health Disparities

- Health equity and social justice, particularly in relation to addiction

Networks

- Many natural and engineered systems—including social systems—consist of multiple interrelated parts and are therefore well represented by and studied as networks

Causal Inference

- Isolation of the causal effect of one variable on another using observational data

EDUCATION

The Ohio State University, Columbus, Ohio USA

- *Ph.D., Social Work, Spring 2014*
 - Specialization: system science
 - Dissertation topic: therapeutic community resident semantic networks and recidivism outcomes
 - Adviser: Professor Keith Warren
- *Master of Social Work, Spring 2008*
 - Thesis topic: exploring therapeutic community residential interactions using agent-based modeling
 - Internship: Franklin Co. Alcohol, Drug, and Mental Health Board
 - Adviser: Professor Keith Warren
- *B.S., Social Work, Spring 2006*
 - Internship: home-based counseling at Directions for Youth and Families in Columbus, OH

EMPLOYMENT EXPERIENCE

The Ohio State University—Ohio Colleges of Medicine Government Resource Center, Columbus, OH

- *Research Analytics Consultant* 6/2018—present

The Ohio State University—College of Public Health, Columbus, OH

- *Post Doctoral Fellow with Mary Ellen Wewers* 7/2014—5/2018
 - National Institutes of Health post-doctoral trainee
 - Tobacco regulatory science
 - experiences: project leadership, collaboration, personnel training, presentation, grant and manuscript writing, data collection, analysis and modeling

The Ohio State University—College of Social Work, Columbus, OH

- *Grad. Research Associate with Alicia Bunger*.....8/2013—6/2014
 - questionnaire design
 - focus group facilitation
 - electronic survey data collection
- *Grad. Student Lecturer—Research & Statistics* 9/2011—6/2012
 - three course series including basic research, statistics, and facilitation of hands-on group research experience (see Teaching section below)

The Ohio State University—Sociology Department, Columbus, OH

- *Grad. Research Associate with Dana Haynie* 7/2011—8/2012
 - longitudinal social network and behavior coevolution modeling
 - grant proposal and manuscript preparation
 - substantial work with Add Health data

The Ohio State University—College of Social Work, Columbus, OH

- *Grad. Research Associate with Keith Warren*..... 9/2008—6/2011
 - management of large longitudinal relational data set
 - longitudinal social network analysis
 - agent-based model programming and exploration
 - manuscript preparation
- *Work Study with Keith Warren*.....9/2007—6/2008
 - agent-based model design and programming (NetLogo)
 - pilot study for NIDA grant application
 - literature review

Directions for Youth and Families, Columbus OH

- *Licensed Social Worker* 7/2006—8/2007
 - home-based counseling for adolescent youth

TEACHING

Lead Lecturer in Three-Course Undergraduate Research Series

- *Introduction to Research Methods (SWK 571)*..... Fall 2011
 - primarily lectured a classroom of approximately 25 students
- *Introduction to Statistics for Social Scientists (SWK 570)*..... Winter 2012
 - lecture (25 students) and lab section (12 students)
 - developed high quality specialized visuals to convey complicated material
 - developed hands-on lab section for practicing inferential statistical analyses
- *Applied Research (SWK 572)*.....Spring 2012
 - interactive group work and lecture with 25 students
 - guided design and execution of small group-based research projects
 - facilitated student research symposium with faculty judges

Teaching Assistant

- *Introduction to Statistics for Social Scientists (SWK 570)* Fall 2010
 - design of data and analysis examples
 - interactive computer lab sessions

REFEREED PUBLICATIONS

- Jason, L. A., Guerrero, M., Salomon-Amend, M., Lynch, G., Stevens, E. B., Light, J. N., Stoolmiller, M., & **Doogan, N. J.** (in press). Network measures of advice-seeking and resource sharing are related to well-being in recovery homes. *International Journal of Drug Policy*.
- Jason, L. A., Stevens, E. B., Kassanits, J., Reilly, A., Bobak, T., Guerrero, M., & **Doogan, N. J.** (2020). Recovery homes: A social network analysis of Oxford Houses for Native Americans. *Journal of Ethnicity in Substance Abuse*, 19(2), 174–189.
- Warren, K., Campbell, B. W., Cranmer, S., De Leon, G., **Doogan, N. J.**, Weiler, M., & Doherty, F. (2020). Building the Community: Endogenous Network Formation, Homophily and Prosocial Sorting Among Therapeutic Community Residents. *Drug & Alcohol Dependence*, 207, 107773.
<https://doi.org/10.1016/j.drugalcdep.2019.107773>
- Jason, L. A., Stevens, E. B., Light, J. M., & **Doogan, N. J.** (2020). An Empirically Based Theory of the Relationships among Social Embeddedness, Economic Viability, Learned Recovery Skills and Perceived Quality of Life in Recovery Homes. *Alcoholism Treatment Quarterly*, 38(1), 126–142.
<https://doi.org/10.1080/07347324.2019.1633977>
- Jason, L. A., Kassanits, J., Reilly, A., Bobak, T., Guerrero, M., Stevens, E. B., Light, J. M., & **Doogan, N. J.** (2019). A Promising Recovery Housing Model for American Indian Communities. *Journal of Community Psychology*, 47(8), 1926–1936.
<https://doi.org/10.1002/jcop.22237>
- Hudson, C. G. & **Doogan, N. J.** (2019). The Impact of Geographic Isolation on Mental Disability in the United States. *Social Science & Medicine—Population Health*, 8, 100437.
<https://doi.org/10.1016/j.ssmph.2019.100437>
- Doogan, N. J.**, Light, J. M., Stevens, E. B., Jason, L. A. (2019). Quality of Life as a Predictor of Social Relationships in Sober Living Residences. *Journal of Substance Abuse Treatment*, 101, 79–87.
<https://doi.org/10.1016/j.jsat.2019.03.006>
- Warren, K., Campbell, B., Cranmer, S., & **Doogan, N. J.** (2019). Relationship between network clustering in a therapeutic community and reincarceration following discharge. *Journal of Substance Abuse Treatment*, 97, pp. 14–20.
<https://doi.org/10.1016/j.jsat.2018.10.008>
- Sweet, L., Brasky, T. M., Cooper, S., **Doogan, N. J.**, Hinton, A., Klein, E. G., Nagaraja, H. N., Quisenberry, A. J, Xi, W., Wewers, M. E. (2019). Quitting behaviors among dual cigarette/e-cigarette users and cigarette smokers enrolled in the Tobacco User Adult Cohort (TUAC). *Nicotine & Tobacco Research*, 21(3), 278–284.
<https://doi.org/10.1093/ntr/nty222>
- Nighbor T. D., **Doogan N. J.**, Roberts M. E., Cepeda-Benito A., Kurti A. N., Priest J. S., Johnson, H. K., Lopez, A. A., Stanton, C. A., Gaalema, D. E., Redner, R., Parker, M. A., Keith, D. R., Quisenberry, A. J. & Higgins, S. T. (2018). Smoking prevalence and trends among a U.S. national sample of women of reproductive age in rural versus

- urban settings. *PLoS One*, 13(11): e0207818.
<https://doi.org/10.1371/journal.pone.0207818>
- Mumford, E., Stillman, F. A., Tanenbaum, E., **Doogan, N. J.**, Roberts, M. E., Wewers, M. E. (2018). Regional Rural-Urban Differences in E-Cigarette Use and Reasons for Use in the United States. *Journal of Rural Health*, 0(0), 1–10.
<https://doi.org/10.1111/jrh.12333>
- Stillman, F. A., Tanenbaum, E., Wewers, M. E., Chelluri, D., Mumford, E. A., Groesbeck, K., **Doogan, N. J.**, Roberts, M. E. (2018). Variations in Support for Second-hand Smoke Restrictions Across Diverse Rural Regions of the United States. *Preventive Medicine*, 116, 157–165.
<https://doi.org/10.1016/j.ypmed.2018.09.014>
- Parker, M. A., Villanti, A. C., Quisenberry, A. J., Stanton, C. A., **Doogan, N. J.**, Redner, R., Gaalema, D. E., Kurti, A. N., Nighbor, T., Roberts, M. E., Cepeda-Benito, A., Higgins, S. T. (2018). Tobacco Product Harm Perceptions Predict New Use among United States Youth. In press: *Pediatrics*, 142(6), e20181505.
<https://doi.org/10.1542/peds.2018-1505>
- Doogan, N. J.**, Roberts, M. E., Wewers, M. E., Tanenbaum, E. R., Mumford, E. A. & Stillman, F. A. (2018). Validation of a New Geographic Isolation Scale: A Tool for Rural Health Disparities Research. *Social Science & Medicine*, 215, 123–132.
<https://doi.org/10.1016/j.socscimed.2018.09.005>
- Bunger, A. C., **Doogan, N. J.**, Hanson, R. F. & Birken, S. A. (2018). Advice-Seeking During Implementation: A Network Study of Clinicians Participating in a Learning Collaborative. *Implementation Science*, 13(1), 101.
<https://doi.org/10.1186/s13012-018-0797-7>
- Quisenberry, A. J., Klein, E. G., Hinton, A., **Doogan, N. J.**, Brasky, T. M., Xi, W., Cooper, S., Nagaraja, H. N. & Wewers, M. E. (2018). The Association of E-Cigarette Use Motivations and Combustible Tobacco Use Over Time Among Exclusive and Dual E-Cigarette Users. *Tobacco Regulatory Science*.
<https://doi.org/info:doi/10.18001/TRS.4.4.7>
- Jason, L. A., Kassanitis, J., Reilly, A., Bobak, T., Guerrero, M, Stevens, E. B. & **Doogan, N. J.** (2018). A social network analysis of Oxford Houses for Native Americans. *Journal of Ethnicity in Substance Abuse*, 1–16.
<https://doi.org/10.1080/15332640.2018.1489748>
- Gaalema, D. E., Pericot-Valverde, I., Bunn, J. Y., Villanti, A. C., Cepeda-Benito, A., **Doogan, N. J.**, Keith, D. R., Kurti, A. N., Lopez, A. A., Nighbor, T., Parker, M. A., Quisenberry, A. J., Redner, R., Roberts, M. E., Stanton, C. A., Ades, P. A., & Higgins, S. T. (2018). Tobacco Use in Cardiac Patients: Perceptions, Use, and Changes after a Recent Myocardial Infarction among US Adults in the PATH Study (2013-2015). *Preventive Medicine*, 117, 76–82.
<https://doi.org/10.1016/j.ypmed.2018.05.004>
- Cepeda-Benito, A., **Doogan, N. J.**, Gaalema, D. E., Keith, D. R., Kurti, A. N., Lopez, A.A., Quisenberry, A., Redner, R., Roberts, M. E., Stanton, C. A., Villanti, A.C. & Higgins, S.T. (2018). Smoking Trend Differences in Men and Women in Rural and Urban U.S. Settings. *Preventive Medicine*.
<https://doi.org/10.1016/j.ypmed.2018.04.008>
- Doogan, N. J.**, Cooper, S., Quisenberry, A. J., Brasky, T. M., Browning, C. R., Klein, E. G., Hinton, A., Nagaraja, H. N., Xi, W. & Wewers, M. E. (2018). The role of travel distance and price promotions in tobacco product purchase quantity. *Health & Place*,

- 51, 151–157.
<https://doi.org/10.1016/j.healthplace.2018.03.009>
- Lopez, A. A., Redner, R., Kurti, A. N., Keith, D. R., Villanti, A. C., Stanton, C. A., Gaalema, D. E., Bunn, J. Y., **Doogan, N. J.**, Cepeda-Benito, A., Roberts, M. E., Higgins, S. T. (2018). Tobacco and nicotine delivery product use in a U.S. national sample of women of reproductive age. In press: *Preventive Medicine*.
<https://doi.org/10.1016/j.ypm.2018.03.001>
- Kurti, A. N., Bunn, J. Y., Villanti, A. C., Stanton, C. A., Redner, R., Lopez, A.A., Keith, D. R., Gaalema, D. E., **Doogan, N. J.**, Cepeda-Benito, A., Roberts, M. E., Phillips, J. K., Higgins, S. T. (2018). Patterns of Single and Multiple Tobacco Product Use Among U.S. Women of Reproductive Age. *Nicotine & Tobacco Research*, 20(suppl_1), s71–s80.
<https://doi.org/10.1093/ntr/nty024>
- Doogan, N. J.**, Wewers, M. E. & Berman, M. (2018). The impact of a federal cigarette minimum pack price policy on cigarette use in the United States. *Tobacco Control*, 27, 203–208.
<http://dx.doi.org/10.1136/tobaccocontrol-2016-053457>
- Brasky, T. M., Hinton, A., **Doogan, N. J.**, Krygowski, S., Nagaraja, H. N., Xi, W., Shields, P. G. & Wewers, M. E. (2018). Characteristics of a newly created cohort of adult tobacco users in urban and rural Ohio: the Tobacco User Adult Cohort (TUAC). *Tobacco Regulatory Science*, 4(1), 614–630.
<https://doi.org/10.18001/TRS.4.1.8>
- Kurti, A. N., Redner, R., Lopez, A. A., Keith D. R., Villanti, A., Stanton, C. A., Gaalema, D. E., Bunn, J., **Doogan, N. J.**, Cepeda-Benito, A., Roberts, M. E., Phillips, M. D. & Higgins, S. T. (2017). Tobacco and Nicotine Delivery Product Use in a National Sample of Pregnant Women. *Preventive Medicine*, 104, 50–56.
<https://doi.org/10.1016/j.ypm.2017.07.030>
- Nemeth, J., Thomson, T., Lu, B., Peng, J., Krebs, V., **Doogan, N. J.**, Ferketich, A., Browning, C., Paskett, E. & Wewers, M. E. (2017). A social-contextual investigation of smoking among rural women: multi-level factors associated with smoking status and considerations for cessation. *Rural & Remote Health*, 18(1), 4338.
<https://doi.org/10.22605/RRH4338>
- Roberts, M. E., **Doogan, N. J.**, Stanton, C. A., Quisenberry, A. J., Villanti, A., Gaalema, D. E., Keith, D. R., Kurti, A. N., Lopez, A. A., Redner, R., Cepeda-Benito, A. & Higgins, S. T. (2017). Rural vs. urban use of traditional and emerging tobacco products in the United States, 2013-2014. *American Journal of Public Health*, 107(10), 1554–1559.
<https://doi.org/10.2105/AJPH.2017.303967>
- Doogan, N. J.**, Roberts, M. E., Wewers, M. E., Stanton, C. A., Keith, D. R., Gaalema, D. E., Kurti, A. N., Redner, R., Cepeda-Benito, A., Lopez, A.A. & Higgins, S.T. (2017). A growing geographic disparity: Rural and urban cigarette smoking trends in the United States. *Preventive Medicine*, 104, 1–136.
<https://doi.org/10.1016/j.ypm.2017.03.011>
- Keith D. R., Stanton, C. A., Gaalema, D. E., Bunn, J. Y., **Doogan, N. J.**, Redner, R., Kurti, A. N., Cepeda-Benito, A., Lopez, A. A., Morehead, A. L., Roberts, M. E., Higgins, S. T. (2017). Disparities in US healthcare provider screening and advice for cessation across chronic medical conditions and tobacco products. *Journal of General Internal Medicine*, 32(9), 974–980.
<https://doi.org/10.1007/s11606-017-4062-6>

- Doogan, N. J.** & Warren, K. (2017). Saving my life: Dynamics of peer and staff corrections among therapeutic community residents. *Substance Use & Misuse*, *52*(11), 1429–1438.
<https://dx.doi.org/10.1080/10826084.2017.1284236>
- Lam, J., Lu, B., **Doogan, N. J.**, Thomson, T., Ferketich, A., Paskett, E. & Wewers, M.E. (2017). Depression, Smoking, and Ego-Centric Social Network Characteristics in Ohio Appalachian Women. *Journal of Rural Mental Health*, *41*(1), 30–41.
<http://dx.doi.org/10.1037/rmh0000054>
- Doogan, N. J.** & Warren, K. (2016). A network of helping: Generalized reciprocity and cooperative behavior in response to peer and staff affirmations and corrections among therapeutic community residents. *Addiction Research & Theory*, *25*(3), 243–250.
<https://doi.org/10.1080/16066359.2016.1249864>
- Stanton, C. A., Keith, D. R., Gaalema, D. E., Bunn, J. Y., **Doogan, N. J.**, Redner, R., Kurti, A. N., Roberts, M. E., Higgins, S. T. (2016). Trends in tobacco use among US adults with chronic health conditions: National Survey on Drug Use and Health 2005-2013. *Preventive Medicine*, *92*, 160–168.
<https://doi.org/10.1016/j.ypmed.2016.04.008>
- Doogan, N. J.** & Warren, K. (2016). Semantic networks, schema change, and reincarceration outcomes of therapeutic community graduates. *Journal of Substance Abuse Treatment*, *70*, 7–13.
<https://doi.org/10.1016/j.jsat.2016.06.011>
- Roberts, M., **Doogan, N. J.**, Kurti, A. N., Redner, R., Gaalema, D. E., Stanton, C. A., White, T. J., Higgins, S. T. (2016). Rural tobacco use across the United States: How rural and urban areas differ, broken down by census regions and divisions. *Health & Place*, *39*, 153–159.
<https://doi.org/10.1016/j.healthplace.2016.04.001>
- Thomson, T. L., Krebs, V., Nemeth, J. M., Lu, B., Peng, J., **Doogan, N. J.**, Ferketich, A. K., Post, D. M., Browning, C. R., Paskett, E. D., Wewers, M. E. (2016). Social networks and smoking in rural women: Intervention implications. *American Journal of Health Behavior*, *40*(4), 405–415.
<https://doi.org/10.5993/AJHB.40.4.2>
- Cifuentes, P., **Doogan, N. J.**, Fernandez, S., Seiber, E. (2016). The factors shaping Americans' objective well-being: A systems science approach with network analysis. In press at *Journal of Policy Models*.
<http://dx.doi.org/10.1016/j.jpmod.2016.03.008>
- Higgins, S. T., Kurti, A. N., Redner, R., White, T. J., Keith, D. R., Gaalema, D. E., Stanton, C. A., Roberts, M. E., **Doogan, N. J.** & Priest, J. (2016). Co-occurring risk factors for current cigarette smoking in a U.S. nationally representative sample. *Preventive Medicine*, *92*, 110–117.
<https://doi.org/10.1016/j.ypmed.2016.02.025>
- Higgins, S. T., Kurti, A. N., Redner, R., White, T. J., Gaalema, D. E., Roberts, M. E., **Doogan, N. J.**, Tidey, J. W., Miller, M. E., Stanton, C. A., Henningfield, J. E., Atwood, G. S. (2015). A literature review on prevalence of gender differences and intersections with other vulnerabilities to tobacco use in the United States, 2004–2014. *Preventive Medicine*, *80*, 89–100.
<https://doi.org/10.1016/j.ypmed.2015.06.009>

- Bunger, A., Hanson, R., **Doogan, N. J.**, Powell, B., Cao, Y., & Dunn, J. (2014). Can learning collaboratives support implementation by rewiring professional networks? *Administration and Policy in Mental Health and Mental Health Services Research*, Dec., 43(1), 72–92.
<https://doi.org/10.1007/s10488-014-0621-x>
- Warren, K., **Doogan, N. J.** (2014). Community as method, community as net: Social network analysis as a tool for studying mutual aid between therapeutic community residents. In: *The Routledge Handbook of Applied Systems Science*, edited by Zachary Neal.
- Bunger, A., **Doogan, N. J.** & Cao, Y. (2014). Building service delivery networks: Partnership evolution among children’s behavioral health agencies. *Journal of The Society for Social Work Research*, 5(4), 513–538.
<https://dx.doi.org/10.1086/679224>
- Haynie, D., **Doogan, N. J.** & Soller, B. (2014). Gender, friendship networks, and delinquency: A dynamic network approach. *Criminology*, 52(4), 688–722.
<https://dx.doi.org/10.1111/1745-9125.12052>
- Warren, K., **Doogan, N. J.**, De Leon, G., Phillips, G., Moody, J. & Hodge, A. (2013). Short-run prosocial behavior in response to receiving corrections and affirmations in three therapeutic communities. *Journal of Offender Rehabilitation*, 52(4), 270-286.
<https://doi.org/10.1080/10509674.2013.782776>
- Warren, K., Hiance, D., **Doogan, N. J.**, Phillips, G. & De Leon, G. (2013). Verbal feedback in therapeutic communities: Pull-ups and reciprocated pull-ups as predictors of graduation. *Journal of Substance Abuse Treatment*, 44(4), 361–368.
<https://dx.doi.org/10.1016/j.jsat.2012.08.020>
- Hiance, D., **Doogan, N. J.**, Warren, K., Hamilton, I. & Lewis, M. (2012). An Agent-Based Model of Lifetime Attendance and Self-Help Program Growth. *Journal of Social Work Practice in the Addictions*, 12(2), 121–142.
<https://doi.org/10.1080/1533256X.2012.669702>
- Doogan, N. J.**, Warren, K., Hiance, D. & Linley, J. (2010). A social network model of direct versus indirect reciprocity in a corrections-based therapeutic community. In: *Simulating Interacting Agents and Social Phenomena*.
- Blank, M.D., Ozga-Hess, J.E., Romm, K.F., Alexander, L., Wilson, M., Douglas, A., **Doogan, N. J.** & Dino, G. (2020, March). Geographic isolation predicts tobacco product use among youth: a latent class analysis. Poster *accepted* for presentation at the 26th annual meeting of the Society for Research on Nicotine and Tobacco, New Orleans, LA. [Poster unable to be presented due to COVID-19]
- Doogan, N. J.**, Cooper, S., Quisenberry, A. J., Brasky, T. M., Browning, C. R., Klein, E. G., Hinton, A., Nagaraja, H. N., Xi, W., Wewers, M. E. (June, 2018). The role of travel distance and price promotions in tobacco product purchase quantity. Oral and poster presentation given at the annual Tobacco Regulatory science meeting, Bethesda, MD.
- Kurti, A., Bunn, J., Villanti, A., Stanton, C., Redner, R., Lopez, A., Gaalema, D., **Doogan, N. J.**, Cepeda-Benito, A., Roberts, M., Phillips, J., Quisenberry, A., Keith, D. & Higgins, S. (February, 2018). Examining patterns of tobacco product use among pregnant women. Presented at the annual meeting of The Society of Research on Nicotine & Tobacco, Baltimore, MD.

REFEREED
 RESEARCH
 PRESENTATIONS

- Cepeda-Benito, A., **Doogan, N. J.**, Roberts, M., Villanti, A., Kurti, A., Lopez, A., Redner, R., Keith, D., Stanton, C., Gaalema, D. & Higgins, S. Smoking trends among rural women lag behind those of rural men, urban men, and urban women. Presented at the annual meeting of The Society of Research on Nicotine & Tobacco, Baltimore, MD.
- Villanti, A., Parker, M., Stanton, C., Cepeda-Benito, A., Gaalema, D., Kurti, A., Keith, D., Redner, R., Lopez, A., **Doogan, N. J.**, Roberts, M., Quisenberry, A. & Higgins, S. (February, 2018). Differences in US adults' cigarette beliefs by education and income: Results from 2015 HINTS data. Presented at the annual meeting of The Society of Research on Nicotine & Tobacco, Baltimore, MD.
- Doogan, N. J.**, Cooper, S., Quisenberry, A. J., Brasky, T. M., Browning, C. R., Klein, E. G., Hinton, A., Nagaraja, H. N., Xi, W., & Wewers, M. E. (February, 2018). The role of travel distance and price promotions in tobacco product purchase quantity. Poster presented at the annual meeting of The Society of Research on Nicotine & Tobacco, Baltimore, MD.
- Doogan, N. J.**, Roberts, M., Wewers, M. E., Tanenbaum, E., Mumford, E. & Stillman, F. (February, 2018). Validation of a New Geographic Isolation Scale. Poster presented at the annual meeting of The Society of Research on Nicotine & Tobacco, Baltimore, MD.
- Cifuentes, M. P., Suarez, C. M. Windels, S., Cifuentes, R. A., **Doogan, N. J.**, Malod-Dognin, N., Hood, D., & Przulj, N. (2017). A network analysis of the incidence pattern of microcephaly in the context of Zika Virus Infection. Presented at the 6th International Conference on Complex Networks and Their Applications in Lyon, France.
- Light, J. M. & **Doogan, N. J.** (2017). A Method for Defining and Modeling Social Networks Inferred from Physical Distance and Related Information. Presented at the 25th annual meeting of the Society for Prevention Research in Washington, D.C.
- Doogan, N. J.**, Roberts, M. E. & colleagues. (2016). A growing geographic disparity: Urban and rural cigarette use trends in the United States. Presented at the Tobacco Control Seminar at The Ohio State University Center for Excellence in Tobacco Regulatory Science in Columbus, OH.
- Doogan, N. J.**, Roberts, M. E. & colleagues. (2016). A growing disparity: Urban and rural cigarette use trends in the United States. Poster presented at the 4th annual Behavior Change, Health & Health Disparities conference in Burlington, VT.
- Doogan, N. J.**, Wewers, M. E., Berman, M. L. (2016). The Effects of a Federal Cigarette Minimum Price Law. Paper presented at the 40th annual meeting of the American Society of Preventive Oncology in Columbus, OH.
- Doogan, N. J.**, Wewers, M. E., Berman, M. L. (2016). Cigarette Tax Revenue and Consumption under Current and Minimum Price Regimes. Poster presented at the 22nd annual meeting of the Society of Research on Nicotine & Tobacco in Chicago, IL.
- Cao, YW, Bungler, A., Hoffman, J., Robertson, H., View, L., & **Doogan, N. J.** (2015). Frontline Child Welfare Workers' Perceptions of Communicative Strategies for Implementing a Planned Organizational Change: Implication for Managers and Leaders. Paper presented at the Society for Social Work and Research 19th Annual Conference in New Orleans, LA.

- Bunger, AC., Powell, B., Hanson, R., **Doogan, N. J.**, Cao, Y., & Dunn, J. (2014). Building professional networks to support implementation of evidence-based mental health services. Paper presented at the 2014 NIMH Mental Health Services Research Conference in Bethesda, MD.
- Warren, K., **Doogan, N. J.** & De Leon, G. (2013). Direct reciprocity, generalized reciprocity and response to corrections as mechanisms of cooperation in therapeutic communities. 14th Conference of the European Federation of Therapeutic Communities. Prague, Czech Republic.
- Warren, K. **Doogan, N. J.** & Hodge, A. (2013). Prosocial responses of therapeutic community residents to peer affirmations and corrections. 17th annual conference of the Society for Social Work Research. San Diego, CA.
- Doogan, N. J.** & Begun, A. (2013). Linking prisoner centralization with social connectedness: Five years of prisoner visitation. 17th annual conference of the Society for Social Work Research. San Diego, CA.
- Haynie, D., Soller, B., **Doogan, N. J.** & Keenan, C. (2012). The importance of peers for adolescent sexual behavior: A dynamic network approach. Annual meeting of The American Society of Criminology. Chicago, IL.
- Haynie, D., **Doogan, N. J.**, Soller, B. & Keenan, C. (2012). Gender, friendship networks, and delinquency: A dynamic network approach. Illicit Networks Conference. Vancouver, BC, Canada.
- Warren, K. & **Doogan, N. J.** (2011). A network time series of affirmative interactions in a therapeutic community. 2nd annual RSiena Users Meeting. Konstanz, Germany.
- Warren, K., **Doogan, N. J.**, Hiance, D. & Moody, J. (2011). Affirmative interaction dynamics in therapeutic communities for substance abusers. 31st annual conference of the International Network for Social Network Analysis (INSNA / Sunbelt). St. Petersburg, FL.
- Warren, K., **Doogan, N. J.** & Hiance, D. (2010). Agent-based models as a tool for social work research. 14th annual conference of the Society for Social Work Research. San Francisco, CA.
- Doogan, N. J.**, Warren, K. & Hiance, D. (2008). A social network model of direct versus indirect reciprocity in a corrections-based therapeutic community. Second World Congress on Social Simulation (WCSS-08). Washington, DC.
- INVITED PRESENTATIONS
- Hudson, C. G. & **Doogan, N. J.** (November, 2020). The Impact of Geographic Isolation on Mental Disability in the United States. Given virtually to the Centers for Disease Control and Prevention (CDC) Health Economics Research Group (HERG).
- Doogan, N. J.** (October, 2018). The Effectiveness of Comprehensive Primary Care. Given to the Ohio Colleges of Medicine Government Resource Center Research Team. The Ohio State University, Columbus, OH.
- Haynie, D., Soller, B., **Doogan, N. J.** & Keenan, C. (March, 2014). Adolescent Social Networks and Sexual Behavior. Given to The College of Public Health Quantitative Research Group. The Ohio State University, Columbus, OH.
- Doogan, N. J.** (October, 2010). Tools for systems science exploration: Agent-based modeling and RSiena. Given to students of an introductory doctoral course by request of Dr. Keith Warren, The Ohio State University in Columbus, OH.

AWARDS

Grants

- 1R21CA205589-01 (Co-PIs: Stillman & Wewers) 6/2016—5/2019
NIH/National Cancer Institute \$239,250

Defining the urban-rural continuum and distinguishing rural differences to prevent tobacco use

The purposes of this application are to assess utility of several common definitions vs. a new definition of urban-rural continuum to explain variation in tobacco-related outcomes and determine similarities/differences across two rural populations (Appalachia, Southern/Delta) with regard to factors that contribute to high prevalence of tobacco use.

Role: Co-Investigator

Other

- *American Society of Preventive Oncology Travel Award (top ranked abstract)*..2016
- *Merriss Cornell Distinguished Researcher (outstanding dissertation)*..... 2014
- *Merriss Cornell Scholarship (outstanding dissertation proposal)*.....2013
- *Criminal Justice Research Center Student Travel Grant*.....2012
- *College of Social Work “Ask Fred” Student Research Travel Fund* 2008

SERVICE

Research Review

- *Ad Hoc Journal Review*
 - Social Networks
 - Network Science
 - Preventive Medicine
 - Social Science Research
 - Journal of Early Adolescence
 - Criminal Justice and Behavior
 - Evaluation and Program Planning
 - Journal of Quantitative Criminology
 - Journal of Artificial Societies and Social Simulation
 - Computational and Mathematical Organization Theory

PROFESSIONAL DEVELOPMENT

Trainings & Workshops

- Big Data with R (interfacing R with a data lake, and cluster computing) 2-day workshop at rstudio::conf1/2019
- Bayesian Data Analysis with Charles Huber7/2018
- Structural Equation Modeling with Charles Huber 7/2018
- Selected 2017 University Center for the Advancement of Teaching (UCAT) Events on Teaching.....9/2017
- Planning and Writing Successful Proposals Workshop with Peg AtKisson ...9/2017
- Write Winning Grant Proposals with David Morrison 9/2015
- Geographic Information Systems Workshop at The Ohio State University...7/2015

- Infectious Disease Dynamics (applied diff. equations) with Joe Tien (OSU) ... 2014
- Multivariate Data Analysis Course (using SIMCA) with Umetrics 8/2014
- STELLA System Dynamics Workshop.....6/2012
- Agent-Based Modeling Workshop with Spiro Maroulis (Northwestern U.) ... 5/2012
- Longitudinal Social Network Analysis Using RSiena with Christian Steglich (University of Groningen) 6/2011
- Introduction to Networks with James Moody (Duke U.) 5/2011
- Networks Short Course in R with Bruce Desmarais (UMass-Amherst) 5/2011

Research Conferences

- rstudio::conf 2019 annual meeting in Austin, TX.
- Addiction Health Services Research 2018 annual meeting in Savannah, GA.
- Stata Conference 2018 annual meeting in Columbus, OH.
- NIH Tobacco Regulatory Science 2018 grantee meeting in Bethesda, MD.
- Society for Research on Nicotine & Tobacco 2018 annual meeting in Baltimore, MD.
- Vermont Center on Behavior & Health 2016 annual conference in Burlington, VT.
- American Society of Preventive Oncology 2016 annual meeting in Columbus, OH.
- Society for Research on Nicotine & Tobacco 2016 annual meeting in Chicago, IL.
- International Network for Social Network Analysis (INSNA / Sunbelt) 2011 annual meeting in St. Petersburg, FL.
- Society for Social Work Research 2010 annual meeting in San Francisco, CA.
- The Second World Congress on Social Simulation 2008 biannual meeting in Fairfax, VA.

TECHNICAL
SKILLS

Data Analysis

- *Basic Techniques & Procedures*
 - bivariate description and inferential tests
 - univariate and multivariate visualization
 - regression modeling
- *Advanced Techniques & Frameworks*
 - model based inference with dependent data observations (e.g., repeated measures, geographic analysis, network analysis)
 - causal inference tools and frameworks (e.g., Judea Pearl’s do-calculus, instrumental variables, differences-in-differences)
 - Bayesian inference
 - agent-based simulation modeling

Data Management, Computing, and Programming

- *R*: statistical computing, data linkage, manipulation, and visualization
- *BUGS*, *Stan*: probabilistic programming languages and samplers for flexible statistical inference
- *MySQL*, *MariaDB*, *SQLite*: database software and the structured query language (SQL)
- *Cluster Computing Services*: e.g., Ohio Supercomputer Center
- *OpenBSD*, *FreeBSD*, *GNU/Linux*: Unix-like operating system environments

Productivity

- *Zotero*: reference management
- *MS Word*, *Excel*, *Access*, *PowerPoint*, *Publisher*: many popular productivity applications
- \LaTeX , \BIBTeX : professional quality and de facto standard typesetting system for creating professional technical documents such as scientific manuscripts (and this CV)