

CURRICULUM VITAE

DOUGLAS ANTHONY LUKE, PH.D.

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BIOGRAPHY

Douglas A. Luke, PhD, is the Irving Louis Horowitz Professor in Social Policy at the Brown School at Washington University in St. Louis. He is the director of the Center for Public Health Systems Science (CPHSS), which has been active and funded for over the past 20 years. His research focuses on evaluation and implementation of evidence-based public health policies. He is also a leading methodologist with expertise in systems science, network analysis, agent-based modeling, and multilevel and longitudinal modeling. Based on a 2019 PLoS Biology bibliometric analysis, he has ranked in the top 1% of scientists in the world based on the number of highly cited papers. He received his PhD in community and clinical psychology from the University of Illinois, Urbana-Champaign, in 1990.

EDUCATION

1990 Post-Doctoral Research Fellow, Clinical Services Research
Fellowship Program, Western Psychiatric Institute and Clinic

1990 Ph.D., University of Illinois, Psychology.

Major field: Clinical/Community Psychology
Minor field: Quantitative Psychology

Dissertation: *The Measurement of Change in a Self-Help Context*

1988 M.A., University of Illinois, Psychology.

Thesis: *Setting and Behavior: Behavior Setting Theory and Mutual Help*

1983 A.B. with honors, Washington University

PROFESSIONAL EXPERIENCE

2020 – Present Irving Louis Horowitz Professor in Social Policy, Brown School,
Washington University in St. Louis.

2012 – Present	Director, Center for Public Health Systems Science, Washington University in St. Louis
2011 – Present	Director, Tracking and Evaluation Core, Institute of Clinical and Translational Sciences, Washington University in St. Louis
2015 – 2020	Director, Doctoral Program in Public Health Sciences, Washington University in St. Louis
2008 – 2020	Professor of Public Health, Brown School, Washington University in St. Louis.
2008 – Present	Founding Faculty Member, Institute of Public Health, Washington University in St. Louis.
2008 – 2012	Director, Center for Tobacco Policy Research, Brown School, Washington University in St. Louis.
2007 – 2008	Professor of Community Health, Saint Louis University School of Public Health.
2007 – 2008	Co-Director, Doctoral Program in Public Health Studies, Saint Louis University School of Public Health.
2001 – 2008	Director, Center for Tobacco Policy Research, Saint Louis University School of Public Health.
2000 – 2007	Associate Professor and Biostatistics Division Director, Department of Community Health, School of Public Health, Saint Louis University.
2000 – 2001	Visiting Associate Professor, Department of Psychology, Harvard University.
1994 – 2000	Assistant Professor, School of Public Health, Saint Louis University.
1990 - 1994	Assistant Professor (Non-tenure track), Department of Psychology, Michigan State University

AWARDS & RECOGNITION

2021	Installed as the first holder of the Irving Louis Horowitz Professorship in Social Policy
2021-2022	Member, Committee on Evaluating the Process to Develop the Dietary Guidelines for Americans, 2020-2025, National Academy of Sciences
2020	Member, Planning Committee on Using Systems Applications to Inform Obesity Solutions, National Academy of Sciences.

- 2019 Brown School Faculty Achievement Award
- 2014 Member, *Committee on the Assessment of Models Used to Predict the Effect of Policies Related to Tobacco Regulation*, Institute of Medicine.
- 2012-2013 Member, *Interagency Committee on Smoking and Health*, U.S. Department of Health & Human Services.
- 2007-2011 Member, NIH CSR Study Section: *Community Influences on Health Behavior*, National Institutes of Health.
- 1999 *Expanding behavior setting theory: Setting phenotypes in a mutual help organization* selected as one of the 10 most influential methodology articles published in the first 25 years of the *American Journal of Community Psychology*.
- 1989 Ed Scheiderer Memorial Award, For outstanding research by a clinical psychology graduate student, University of Illinois.
- 1984 Outstanding instructor, Introduction to Psychology, University of Illinois.
- 1983 Phi Beta Kappa, Washington University.

GRANTS AND CONTRACTS

- 2020 – 2025 Principal Investigator, Program Sustainability Assessment Tool and User Guide Support Services. Washington University. (\$2.9M, 200-2015-87568, CDC).
- 2019 – 2023 Methods Core PI, Accelerator Strategies for States to Improve System Transformations affecting Children, Youth, and Families. NYU & Washington University. (\$747K, P50 MH113662, NIH).
- 2019 - 2024 Methods Unit Lead. Washington University Implementation Science Center in Cancer Control (WU-ISCCC). Washington University. (\$1.2M, P50 CA-19-006, 5 years, NCI).
- 2019 - 2024 Co-Investigator. IDEAS Center (IDEAS). NYU, Washington University. (\$1.7M, P50, 5 years, NIMH).
- 2019 - 2024 Co-Principal Investigator. Interact for Health - Tobacco 21 Evaluation. Washington University. (\$223K, 2 years, Interact for Health).
- 2018 - 2023 Co-Principal Investigator. Advancing Science and Practice in the Retail Environment (ASPiRE). UNC, Washington University, Stanford. (\$11.6M, NCI P01-CA225597-01, 5 years, NCI).

- 2016 – 2018 Principal Investigator. Evaluation of North Dakota’s Comprehensive Tobacco Prevention and Control Program. Washington University. (\$900K, 2 years, State of North Dakota).
- 2016 – 2018 Co-Principal Investigator. Agent-based Modeling to Measure the Impact of Menthol and Retailer Density Policies in Minnesota. Tobacco Control Legal Consortium, St. Paul, MN; Washington University. (\$90K, 2 years, ClearWay Minnesota).
- 2015 – 2020 Co-Principal Investigator. Sustainability Toolkit and User Guide Tools Dissemination Project. Washington University. (\$524K, 5 years, CDC).
- 2013 – 2015 Principal Investigator (12%). A retail policy laboratory: Modeling impact of retailer reduction on tobacco use. Washington University. (\$275K, 2 years, NIH, 1R21CA172938-01A1).
- 2012 – 2016 Co-Investigator. Sustainability Toolkit and User Guide Tools Dissemination Project. Washington University. (\$385K, 4 years, CDC).
- 2012 – 2017 Director of Tracking & Evaluation Core. Institute of Clinical and Translational Sciences. Washington University. (PI Evanoff, NIH/NCATS U54 RR024992).
- 2012 – 2013 Co-Investigator. Social Networks as External Executive Control in Early Recovery from Alcohol Use Disorders. Washington University Research Strategic Alliance (URSA). (PI McCutcheon) (\$25K).
- 2011 – Present Principal Investigator (20%); Maximizing state & local policies to restrict tobacco marketing at point of sale. University of North Carolina, Washington University, Stanford University (PIs Ribisl, Luke, Henriksen). (\$8.2M, 5 years, NCI, 1U01CA154281-01).
- 2011 – 2015 Principal Investigator (4%); IPA with CDC Division of Heart Disease and Stroke Prevention. Washington University Center for Tobacco Policy Research. (\$329K, 2 years, CDC)
- 2011 – 2012 Principal Investigator (10%); Sustainability Tool Dissemination Project. Washington University Center for Tobacco Policy Research. (\$162K, 1 year, CDC)
- 2010 – 2012 Principal Investigator of Evaluation Contract (10%); Communities Putting Prevention to Work: Changing Tobacco Norms in St. Louis County; St. Louis County Health Department. (\$972K, 2 years, CDC).
- 2009 – 2010 Principal Investigator (5%); State Sustainability Tool Development Project. Washington University Center for Tobacco Policy Research. (\$178K, 1 year, NACDD).
- 2008 – 2011 Principal Investigator (5%); Evidence-base in Tobacco Control: Evaluating States’ Use of Evidence-based Guidelines. Washington

University Center for Tobacco Policy Research. (\$653K, 3 years, NACDD).

2008 – 2011 Principal Investigator (5%); Best Practices User Guides Project. Washington University Center for Tobacco Policy Research. (\$404K, 3 years, NACDD).

2007 – 2008 Principal Investigator (10%); Missouri Tobacco Control Assessment Project; Saint Louis University Center for Tobacco Policy Research. (\$167K; 1 year; Missouri Foundation for Health).

2007 – 2009 Principal Investigator (7%); National Tobacco Control Networks for Priority Populations - Evaluation; Saint Louis University Center for Tobacco Policy Research. (\$64K; 1 year; CDC).

2007 – Present Biostatistician (4%); Cancer Control Dissemination Research Among State-Level Policy Makers; Saint Louis University. (5 years; NCI).

2005 – Present Principal Investigator (20%); External Evaluator for MFH Tobacco Control Initiative; Saint Louis University Center for Tobacco Policy Research. (\$2.8 million; 7 years; Missouri Foundation for Health).

2005 – 2006 Biostatistician (In kind); Analysis of Patterns and Policy-related Correlates of State Obesity; Saint Louis University. (\$62,000; 1 year; Robert Wood Johnson Foundation).

2004 – Present Biostatistician (4%); Health Promotion and Disease Prevention Research Center; Saint Louis University. (5 years; CDC).

2004 – 2007 Evaluation Coordinator (4%); Cancer Prevention & Control Research Network; Saint Louis University. (5 years; CDC).

2003 – 2008 Principal Investigator (30%); Cancer Communication in Black Newspapers; Saint Louis University. (\$2.0M; 5 years; NCI).

2003 – 2005 Principal Investigator (20%); Evaluation of Economic Impact on State Tobacco Control Programs; Saint Louis University. (\$450,000; 2 years; CDC, NCI, American Legacy Foundation).

2003 – 2004 Biostatistician (20%); Relationship of Cardiac and Upper Respiratory Illnesses Reported at Emergency Departments and Air Pollution in the St. Louis Metropolitan Area. Principal Investigator: David Sterling. (\$175,000; 1 year; EPRI).

2002 – 2004 Co-Investigator (3%); Physical Activity, Obesity and Diabetes Prevention; Saint Louis University. Principal Investigator: Ross Brownson. (\$1.2M; 3 years; NIDDK).

2001 – 2005 Co-Investigator (10%); The Collaborative Genetic Study of Nicotine Dependence; Washington University. Principal Investigator: Theodore Reich. (\$11M; 5 years; NCI).

- 2001 – 2004 Principal Investigator (25%); Multistate Evaluation of Tobacco Control Best Practices; Saint Louis University, Missouri Department of Health. (\$600,000; 3 years; CDC, American Legacy Foundation).
- 2001 – 2003 Co-Investigator (15%); Alcoholism: Epidemiologic High Risk Family Study; Washington University. Principal Investigator: Kathleen Bucholz. (5 years; NIAAA).
- 1999 – 2003 Consultant (2%); Development of Practical Measures of Protective Social Factors and Social Capital; Saint Louis University. Principal Investigator: Elizabeth Baker. (\$238,406; 3 years; CDC).
- 1998 – 2003 Co-Investigator (10%); Media Dissemination Core Study: Chronic Disease Prevention in High-Risk Communities; Saint Louis University. Principal Investigator: Matthew Kreuter. (\$835,000; 5 years; CDC).
- 1998 – 2003 Co-Investigator (5%); Methods Core: Chronic Disease Prevention in High-Risk Communities; Saint Louis University. Principal Investigator: Elena Andresen. (5 years; CDC).
- 1999 – 2000 Principal Investigator (15%); Development of an Ecological Cancer Risk Assessment Instrument; Saint Louis University/Washington University/AMC Cancer Center. (\$100,000; 1 year; AMC Cancer Center)
- 1997 - 1998 Principal Investigator (20%); Teen Responses to Tobacco Control Policies; Saint Louis University. (\$100,000; 1 year; CDC).
- 1997 - 2000 Biostatistical Consultant (5%); Cognitive Processes in PTSD: Focus on Domestic Violence; University of Missouri-St. Louis. Principal Investigator: Patricia Resick. (\$2,079,457; 4 years; NIMH).
- 1997 - 1998 Biostatistical Consultant (5%); Removal of Lead from Carpets and Upholstery; Saint Louis University. Principal Investigator: Roger Lewis. (\$125,000; 1 year; HUD).
- 1996 - 1997 Principal Investigator (25%); Teen Responses to Tobacco Advertising; Saint Louis University. (\$97,418; 1 year; CDC).
- 1996 - 1997 Biostatistical Consultant (10%); Developing Prostate Cancer Early Detection Programs; Missouri Department of Health. (\$150,000; 1 year; CDC).
- 1994 - 1999 Biostatistical Consultant (5%); Rural Chronic Disease Prevention Center; Saint Louis University. Principal Investigator: Ross Brownson. (5 years; CDC)
- 1995 - 1996 Principal Investigator (30%); Sociocultural Factors in Adolescent Smoking; Saint Louis University. (\$100,000; 1 year; CDC).
- 1995 - 1996 Biostatistical Consultant (5%); The Assessment and Validation of the Health Promotion Environments; Saint Louis University. (\$98,099; 1 year; CDC)

- 1995 - 1996 Biostatistical Consultant (5%); Dioxin Exposure Study from Incinerator Emissions, Times Beach, Missouri; Missouri Department of Health & Saint Louis University. Principal Investigator: Greg Evans. (2 years; EPA)
- 1990 - 1994 Co-Principal Investigator (50%), Evaluation of a Specialized Treatment Program for Dual-Diagnosis, Michigan Department of Mental Health and Michigan State University. Principal Investigators: Carol Mowbray and William Davidson III. (\$650,000; 5 years; NIMH)

PUBLICATIONS

- Kwan, B. M., Brownson, R. C., Glasgow, R. E., Morrato, E. H., & Luke, D. A. (in press). Designing for dissemination and sustainability to promote equitable impacts on health. *Annual Review of Public Health*.
- Malone, S., Prewitt, K., Hackett, R., Lin, J., McKay, V., Walsh-Bailey, C., & Luke, D. A. (in press). The Clinical Sustainability Assessment Tool: Measuring organizational capacity to promote sustainability in healthcare. *Implementation Science Communications*.
- Luke, D. A., & Prusaczyk, B. (in press). Network analysis: The social bridge to health. In S. C. Scrimshaw, S. D. Lane, R. A. Rubinstein, and J. Fisher (Eds.), *The SAGE Handbook of Social Studies in Health and Medicine* (Ch. 7). SAGE Publications.
- Combs, T. B., Carothers, B. J., Liu, Y., Evanoff, B., & Luke, D. A. (2021). If you build it, will they come? Linking researcher engagement and scientific productivity in large infrastructure grants. *Journal of Clinical and Translational Science*. 2021:1-35. doi:10.1017/cts.2021.17.
- Padek, M. M., Mazzucca, S., Allen, P., Weno, E. R., Tsai, E., Luke, D. A., & Brownson, R. C. (2021). Patterns and correlates of mis-implementation in state chronic disease public health practice in the United States. *BMC Public Health*, 21(1), 1-11. PMID: [PMC7840223](https://pubmed.ncbi.nlm.nih.gov/34840223/).
- Luke, D. A., Ornstein, J. T., Combs, T. B., Henriksen, L., & Mahoney, M. (2020). Moving from metrics to mechanisms to evaluate tobacco retailer policies: Importance of retail policy in tobacco control. *American Journal of Public Health*, 110, 431-433. PMID: PMC7067099.
- Luke, D. A. (2020). *Multilevel modeling*, 2nd Edition. Sage Publications.

- Rosenthal, J., Arku, R. E., Baumgartner, J., Brown, J., Clasen, T., Eisenberg, J. N. S., Hovmand, P., Jagger, P., Luke, D. A., Quinn, A., & Yadama, G. N. (2020). Systems science approaches for global environmental health research: Enhancing intervention design and implementation for household air pollution (HAP) and water, sanitation, and hygiene (WASH) programs. *Environmental Health Perspectives*, 128(10), 105001. PMID: [PMC7546437](https://pubmed.ncbi.nlm.nih.gov/32444447/).
- Dopp, A. R., Narcisse, M. R., Munday, P., Silovsky, J. F., Smith, A. B., Mandell, D., Funderburk, B. W., Powell, B. J., Schmidt, S., Edwards, D., Luke, D. A., & Mendel, P. (2020). A scoping review of strategies for financing the implementation of evidence-based practices in behavioral health systems: State of the literature and future directions. *Implementation Research & Practice*. <https://doi.org/10.1177/2F2633489520939980>
- Hammond, R. A., Combs, T. B., Mack-Crane, A., Kasman, M., Sorg, A., Snider, D., Luke, D. A. (2019). Development of a computational modeling laboratory for examining tobacco control policies: Tobacco Town. *Health & Place*. <https://doi.org/10.1016/j.healthplace.2019.102256>
- Combs, T. B., McKay, V. R., Ornstein, J., Mahoney, M., Cork, K., Brosi, D., Kasman, M., Heuberger, B., Hammond, R. A., & Luke, D. A. (2020). Modelling the impact of menthol sales restrictions and retailer density reduction policies: insights from Tobacco Town Minnesota. *Tobacco Control*, 29(5), 502-509. PMID: [PMC7476266](https://pubmed.ncbi.nlm.nih.gov/32444447/).
- Dhand, A., Lang, C. E., Luke, D. A., Kim, A., Li, K., McCafferty, L., Mu, Y., Rosner, B., Feske, S. K., & Lee, J. M. (2019). Social network mapping and functional recovery within 6 months of ischemic stroke. *Neurorehabilitation and Neural Repair*. PMID: [PMC6851478](https://pubmed.ncbi.nlm.nih.gov/32444447/).
- Combs, T., Brosi, D., Chaitan, V., He, E., Luke, D. A., & Henriksen, L. (2019). Local retail tobacco environment regulation: Early adoption in the U.S. *Tobacco Regulatory Science*, 5, 76-86
- Harris, J. K., Combs, T. B., Johnson, K. J., Carothers, B.J, Luke, D. A., Wang, X. (2019). Three changes public health scientists can make to help build a culture of reproducible research. *Public Health Reports*. PMID: [PMC6410469](https://pubmed.ncbi.nlm.nih.gov/32444447/).
- Dhand, A., Luke, D. A., Lang, C., Tsiaklides, M., Feske, S., & Lee, J. M. (2019). Social networks and risk of delayed hospital arrival after acute stroke. *Nature Communications*, 10, 1206. PMID: [PMC6418151](https://pubmed.ncbi.nlm.nih.gov/32444447/).
- Prusaczyk, B., Maki, J., Luke, D. A., & Lobb, R. (2019). Rural health networks: How network analysis can inform patient care and organizational collaboration in a

rural breast cancer screening network. *The Journal of Rural Health*, 35, 222-228. PMID: [PMC6188848](#).

Luke, D. A., Sarli, C. C., Suiter, A. M., Carothers, B. J., Combs, T. B., Allen, J. L., Beers, C. E., & Evanoff, B. A. (2018). The Translational Science Benefits Model: A new framework for assessing the health and societal benefits of clinical and translational sciences. *Clinical and Translational Science*, 11, 77-84. PMID: [PMC5759746](#).

Harris, J. K., Johnson, K. J., Carothers, B.J, Combs, T. B., Luke, D. A., Wang, X. (2018). Use of reproducible research practices in public health: A survey of public health analysts. *PLoS ONE* 13(9): e0202447. PMID: [PMC6135378](#).

Vitale, R., Blaine, T., Zofkie, E., Moreland-Russell, S., Combs, T., Brownson, R. C., & Luke, D. A. (2018). Developing an evidence-based program sustainability training curriculum: a group randomized, multi-phase approach. *Implementation Science*, 13(1), 1-12.

Schleicher, N. C., Johnson, T. O., D'angelo, H., Luke, D. A., Ribisl, K. M., & Henriksen, L. (2018). Concordance of advertised cigarette prices with purchase receipts in the United States. *Tobacco Regulatory Science*, 4(3), 3-9. PMID: [PMC6368404](#).

Patel, R.R., Luke, D.A., Proctor, E.K., Powderly, W.G., Chan, P.A., Mayer, K.H., Harrison, L.C. & Dhand, A. (2018). Sex venue-based network analysis to identify HIV prevention dissemination targets for men who have sex with men. *LGBT Health*, 5, 78-85. PMID: [PMC5770083](#).

Dhand, A., Luke, D. A., Kim, A., Feske, S. K., Lang, C. E., & Lee, J. (2018). Social network size at stroke onset is associated with 3 and 6-month stroke outcomes. *Stroke*, 49, ATMP37.

Luke, D. A., Hammond, R. A., Combs, T., Sorg, A., Kasman, M., Mack-Crane, W., Ribisl, K. M., & Henriksen. (2017). Tobacco Town: Using computational modeling to study effects of policies designed to reduce tobacco retailer density. *American Journal of Public Health*, 107(5), 740-746. PMID: [PMC5388950](#).

Luke, D. A., Morshed, A. B., McKay, V. R., & Combs, T. B. (2017). Systems science methods in dissemination and implementation research. In R. C. Brownson, G. A. Colditz, and E. K. Proctor (Eds.), *Dissemination and Implementation Research in Health: Translating Science to Practice*, 2nd Ed. (pp. 157-173). Oxford University Press.

Ginexi, E. M., Huang, G., Steketee, M., Tsakraklides, S., MacAllum, K., Bromberg, J., Huffman, A., Luke, D. A., Leischow, S. J., Okamoto, J. M., & Rogers, T. (2017). Social network analysis of a scientist–practitioner research initiative

established to facilitate science dissemination and implementation within states and communities. *Research Evaluation*, 26(4), 316-325.

- Brownson, R. C., Proctor, E. K., Luke, D. A., Baumann, A. A., Staub, M., Brown, M. T., & Johnson, M. (2017). Building capacity for dissemination and implementation research: one university's experience. *Implementation Science*, 12(1), 104. PMID: [PMC5559847](#).
- Ribisl, K. M., D'Angelo, H., Feld, A. L., Schleicher, N. C., Golden, S., Luke, D. A., & Henriksen, L. (2017). Disparities in tobacco marketing and product availability at the point of sale: Results of a national study. *Preventive Medicine*, 105, 381-388. PMID: [PMC5630502](#).
- Farrelly, M. C., Chaloupka, F. J., Berg, C. J., Emery, S. L., Henriksen, L., Ling, P., Leischow, S. J., Luke, D. A., Kegler, M. C., Zhu, S. H., Pesko, M. F., & Ginexi, E. M. (2017). Taking stock of tobacco control program and policy science and impact in the United States. *Journal of Addictive Behaviors and Therapy*, 1(2-8). PMID: [PMC6124688](#).
- Lee, J. G., Sun, D. L., Schleicher, N. M., Ribisl, K. M., Luke, D. A., & Henriksen, L. (2017). Inequalities in tobacco outlet density by race, ethnicity, and socioeconomic status, 2012, USA: Results from the ASPIRE Study. *Journal of Epidemiology and Community Health*, 71(5), 487. PMID: [PMC5458784](#).
- Luke, D. A. & Schoen, M. (2017). Social networks in human disease. In J. Loscalzo, A. L. Barabasi, and E. K. Silverman (Eds.), *Network medicine: Complex systems in human disease and therapeutics* (pp. 89-111). Harvard University Press.
- Luke, D. A., Dhand, A., & Carothers, B. J. (2017). Social network analysis: The ubiquity of social networks and their importance for population health. In A. El-Sayed and S. Galea (Eds.), *Systems Science and Population Health* (pp. 113-128). Oxford University Press.
- Ribisl, K. M., Luke, D. A., Bohannon, D. L., Sorg, A. A., & Moreland-Russell, S. (2017). Reducing disparities in tobacco retailer density by banning tobacco product sales near schools. *Nicotine & Tobacco Research*, 19(2), 239-244. PMID: [PMC5234366](#).
- Luke, D. A., Baumann, A. A., Carothers, B. J., Landsverk, J., & Proctor, E. K. (2016). Forging a link between mentoring and collaboration: A new training model for implementation science. *Implementation Science*, 11:137. PMID: [PMC5062835](#).
- Luke, D. A., Sorg, A. A., Combs, T., Robichaux, C. B., Moreland-Russell, S., Ribisl, K. M., & Henriksen, L. (2016). The tobacco retail policy landscape: A longitudinal survey of US states. *Tobacco Control*, 25, i44-i51. PMID: [PMC5099223](#).

- Ribisl, K. M., Luke, D. A., & Henriksen, L. (2016). The case for a concerted push to reduce place-based disparities in smoking-related cancers (Invited commentary). *JAMA Internal Medicine*, *176*(12), 1799-1800. PMID: [PMC5517298](#).
- Dhand, A., Luke, D. A., Lang, C. E., & Lee, J. (2016). Social networks and neurological illness. *Nature Reviews Neurology*. PMID: [PMC5056369](#).
- Golden, S. D., Farrelly, M. C., Luke, D. A., & Ribisl, K. M. (2016). Comparing projected impacts of cigarette floor price and excise tax policies on socioeconomic disparities in smoking. *Tobacco Control*, *25*, i60-i66. PMID: [PMC5099216](#).
- Moreland-Russell, S., Combs, T., Schroth, K., & Luke, D. A. (2016). Success in the city: The road to implementation of Tobacco 21 and sensible tobacco enforcement in New York City. *Tobacco Control*, *25*, i6-i9.
- Dhand, A., Dalton, A. E., Luke, D. A., Gage, B. F., & Lee, J. (2016). Accuracy of wearable cameras to track social interactions in stroke survivors. *Journal of Stroke and Cerebrovascular Diseases*, *25*, 2907-2910. PMID: [PMC5154919](#).
- Dhand, A., Luke, D. A., Carothers, B. J., & Evanoff, B. A. (2016). Academic cross-pollination: The role of disciplinary affiliation in research collaboration. *PLoS ONE*, *11*(1):e0145916. DOI: 10.1371/journal.pone.0145916. PMID: [PMC4711942](#).
- Luke, D. A. (2015). *A user's guide to network analysis in R*. Springer International Publications.
- Dhand, A., Luke, D. A., Tsiaklides, M., Lang, C., Lee, JM. (2015). Social network characteristics influence timing of hospital arrival after acute ischemic stroke. *Annals of Neurology*, *78*, S25.
- Proctor, E., Luke, D. A., Calhoun, A., McMillen, C., Brownson, R., McCrary, S., & Padek, M. (2015). Sustainability of evidence-based healthcare: Research agenda, methodological advances, and infrastructure support. *Implementation Science*, *10*, 88. doi:10.1186/s13012-015-0274-5.
- IOM (Institute of Medicine). (2015). *Assessing the use of agent-based models for tobacco regulation*. Washington, DC: The National Academies Press.
- Gehlert, S., Carothers, B. J., Lee, J. A., Gill, J., Luke, D. A., & Colditz, G. (2015). A social network analysis approach to diagnosing and improving the functioning of transdisciplinary teams in public health. *Transdisciplinary Journal of Engineering & Science*, *6*, 11-22.

- McCutcheon, V. V., Luke, D. A., & Lessov-Schlaggar, C. N. (2015). Reduced social network drinking is associated with improved response inhibition in women during early recovery from alcohol use disorders: A pilot study. *Alcoholism Clinical and Experimental Research*, *40*. DOI: 10.1111/acer.12925.
- Barbero, C., Gilchrist, S., Schooley, M.W., Chriqui, J.F., Luke, D.A., & Eyler, A. A. (2015). Assessing the evidence basis for public health policy using the Quality and Impact of Component (QuIC) Evidence Assessment. *Global Heart*, *10*, 3-11. doi: 10.1016/j.ghheart.2014.12.013. PMCID: [PMC7333283](#).
- Luke, D. A., Carothers, B. J., Dhand, A., Bell, R. A., Moreland-Russell, S., Sarli, C. C., & Evanoff, B. A. (2015). Breaking down silos: Mapping growth of cross-disciplinary collaboration in a translational science initiative. *Clinical and Translational Science*, *8*, 143-149. PMCID: [PMC4405428](#).
- Luke, D. A., Calhoun, A., Robichaux, C.B., Elliott, M. B., & Moreland-Russell, S. (2014). The *Program Sustainability Assessment Tool*: A new instrument for public health programs. *Preventing Chronic Disease*, *11*, 130184. PMCID: [PMC3900326](#).
- Calhoun, A., Mainor, A., Moreland-Russell, S., Maier, R., Brossart, L., & Luke, D. A. (2014). Using the *Program Sustainability Assessment Tool* to assess and plan for sustainability. *Preventing Chronic Disease*, *11*, 130185. PMCID: [PMC3900327](#).
- Cavazos-Rehg, P., Krauss, M., Spitznagel, E. L., Chaloupka, F. J., Luke, D. A., Waterman, B., Gruzza, R. A., & Bierut, L. J., (2014). Differential effects of cigarette price changes on adult smoking behaviors. *Tobacco Control*, *23*, 113-118. Doi:10.1136/tobaccocontrol-2012-050517. PMCID: PMC3740198.
- Luke, D. A., Moreland-Russell, S., & Herbers, S. (2013). Measuring success: An evaluation framework for transdisciplinary public health. In D. Haire-Joshu and T. D. McBride (Eds.), *Transdisciplinary public health: Research, methods, and practice* (pp. 79-98). San Francisco: Jossey-Bass.
- Luke, D. A., Wald, L. M., Carothers, B. J., Bach, L. E., & Harris, J. K. (2013). Network influences on dissemination of evidence-based guidelines in state tobacco control programs. *Health Education & Behavior* *40*, pp. 33S-42S.
- Schell, S. F., Luke, D. A., Schooley, M. W., Elliott, M. B., Herbers, S. H., Mueller, N. B., & Bunger, A. C. (2013). Public health program capacity for sustainability: A new framework. *Implementation Science*, *8*, 15. PMCID: PMC3599102.
- Caburnay, C. A., Luke, D. A., Cameron, G., Cohen, E. L., Fu, Q., Lai, C. L., Stemmler, J., Paulen, M., McDaniels, L., Kreuter, M. W. (2012). Evaluating the Ozioma

cancer news service: A community randomized trial in 24 U.S. cities. *Preventive Medicine*, 54, 425-430. PMID: PMC3459597

Luke, D. A., & Stamatakis, K. A. (2012). Systems science methods in public health: Dynamics, agents, and networks. *Annual Review of Public Health*, 33, 357-376. PMID: PMC3644212

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INVITED PRESENTATIONS

Luke, D. A. (2014, April). *The application of social network analysis to health behavior interventions*. Invited presentation to the Workshop on Innovative Study Designs and Methods for Developing, Testing and Implementing Behavioral Interventions to Improve Health, NHLBI, Bethesda, MD.

Luke, D. A., & Hammond, R. A. (2014, February). *Modeling the effects of chronic disease policies to reduce health disparities: The Tobacco Town example*. Invited presentation to the national conference, Complex Systems, Health Disparities & Population Health: Building Bridges, Network on Inequality, Complexity & Health (NICH), Bethesda, MD.

Luke, D. A. (2013, December). *Systems science methods and tobacco control policy*. Invited presentation to the Public Workshop on Modeling and Statistical Methods in the Assessment of the Health Effects of Tobacco Products, FDA, Washington, DC.

Luke, D. A. (2013, October). *Social networks in human disease*. Invited presentation to the 2nd Annual Network Medicine training course, Harvard University, Cambridge, MA.

Luke, D. A. (2007, November). *Do warning labels work? Lessons from tobacco control*. Invited presentation to the 8th Annual NCRG Conference on Gambling and Addiction, NCRG, Las Vegas, NV.

Luke, D. A., & Mueller, N. B. (2006, June). *A sustainability model for state tobacco control: Maintaining program effectiveness in good times and bad*. Invited national netconference, Office on Smoking and Health, CDC.

Luke, D. A. (2006, March). *Inter-organizational network analysis: The utility of a systems approach to health research and practice*. Invited presentation to annual meeting of the American Academy of Health Behavior, Carmel, CA.

- Luke, D. A. (2005, August). *Capturing the context of health: The utility of multilevel modeling in public health*. Invited presentation to the Behavioral Science Working Group, Centers for Disease Control & Prevention, Atlanta, GA.
- Luke, D. A. (2005, June) *An Exploration Of Multilevel Models: The Good, The Bad, And The Ugly*. Invited discussant for symposium presented at the Biennial Conference of the Society for Community Research & Action, Champaign, IL.
- Luke, D. A., & Mueller, N. B. (2004, June). *Evaluation of changes in tobacco control programs: Utility of a systems approach for assessing sustainability*. Plenary talk presented at the Tobacco Control Investigators Meeting: Synthesizing Research for the Public's Health, NCI, San Diego, CA.
- Luke, D. A. (2004, February) *Evaluation of effects of reduced funds*. Plenary talk presented at the Evaluation of Surveillance and Evaluation Workshop, CDC, Atlanta, GA.
- Luke, D. A. (1998, October). *Teen's Images of Smoking*. Paper presented at the 1998 National Conference on Tobacco and Health, St. Paul, MN.
- Luke, D. A. (1993, February). *Putting the elephant together: The ecology of self-help participation*. Paper presented at the Center for Self-Help Research & Knowledge Dissemination Conference on Self-Help Research, Ann Arbor, MI.

SELECTED PAPER PRESENTATIONS

- Luke, D. A., Carothers, B. J., & Harris, J. K. (2014, February). *Social network analysis as a critical tool for tobacco control evaluation*. Paper presented at the 34th Sunbelt Conference, St. Pete Beach, FL.
- Carothers, B. J., Luke, D. A., Dhand, A., Moreland-Russell, S., Sarli, C. C., & Evanoff, B. A. (2014, February). *Mapping the growth of transdisciplinary partnerships over time in a large scientific initiative*. Paper presented at the 34th Sunbelt Conference, St. Pete Beach, FL.
- Luke, D. A. (2011, May). *Network models of dissemination in public health*. Invited workshop presented at the 2011 Institute on Systems Science and Health, Pittsburgh, PA.
- Luke, D. A., Herbers, S., Wald, L., & Harris, J. K. (2011, March). *Network models of dissemination in public health*. Paper presented at the 4th Annual NIH Conference on the Science of Dissemination and Implementation, Washington, D.C.
- Schell, S., Luke, D. A., Herbers, S. (2011, March). *Sustainability assessment: A framework and measurement tool*. Poster presented at the 4th Annual NIH

Conference on the Science of Dissemination and Implementation, Washington, D.C.

- Harris, J. K., Luke, D. A., Ballew, P., & Brownson (2008, January). *Are there similarities in the interorganizational network structures of state public health systems? Using network analysis to compare tobacco control programs to physical activity promotion programs*. Poster presented at the 28th annual International Sunbelt Social Network Conference, St. Pete Beach, Florida.
- Harris, J. K., Luke, D. A., & Zuckerman, R. (2007, January). *From discovery to dissemination: Using citation network analysis to examine connections between two branches of secondhand smoke research*. Poster presented at the 27th annual International Sunbelt Social Network Conference, Corfu, Greece.
- Harris, J. K., Zuckerman, R., Burke, R. C., Herbers, S. H., & Luke, D. A. (2006, November). *Where in the world are our evaluation results? Using the Web to disseminate research findings*. Poster presented at the 134th Annual Meeting of the American Public Health Association, Boston, MA.
- Luke, D. A., Harris, J. K., Mueller, N. B., Ponder, P., & Leischow, S. (2006, February). *Mapping the U.S. Department of Health and Human Services tobacco control leadership*. Paper presented at the Society for Research on Nicotine and Tobacco's 12th Annual Meeting, Orlando, FL.
- Luke, D. A., Harris, J. K., Mueller, N. B., & Burke, R. C. (2005, December). *Using network analysis to evaluate tobacco control programs*. Paper presented at the 133rd Annual Meeting of the American Public Health Association, Philadelphia, PA.
- Mueller, N. B., Boyce, J. C., Hogan-Watts, M. L., & Luke, D. A. (2005, December). *Evaluating the strength of school tobacco policies: The development of a practical rating system*. Paper presented at the 133rd Annual Meeting of the American Public Health Association, Philadelphia, PA.
- Harris, J. K., Burke, R. C., Herbers, S. H., Mueller, N. B., & Luke, D. A. (2005, December). *Examining the changes in communication networks of two state tobacco programs: A social network analysis*. Paper presented at the 133rd Annual Meeting of the American Public Health Association, Philadelphia, PA.
- Luke, D. A., Mueller, N. B., Harris, J. K., Montgomery, T. P., & Burke, R. C. (2005, March). *Using network analysis to evaluate tobacco control program systems*. Paper presented at the Society for Research on Nicotine and Tobacco's 11th Annual Meeting, Prague, Czech Republic.

- Luke, D. A., Schmitt, C., Clark, P., & Mueller, N. B. (2004, June). *The consequences of defunding state tobacco control programs: A model for data sharing*. Paper presented at the Tobacco Control Investigators Meeting: Synthesizing Research for the Public's Health, NCI, San Diego, CA.
- Krauss, M.J., Mueller, N.H., and Luke, D.A. (February 2003) *Using social network analysis to examine inter-organizational relationships in tobacco control*. Paper presented at the 17th National Conference on Chronic Disease Prevention and Control, St. Louis, MO.
- Luke, D. A., & Krauss, M. (2002, November). *Relationship between Tobacco Industry political contributions and U.S. Congressional activity*. Paper presented at the 2002 National Conference on Tobacco or Health, San Francisco, CA.
- Mueller, N., & Luke, D. A. (2002, November). *Best Practices: Current policy, evaluation, & practice*. Paper presented at the 2002 National Conference on Tobacco or Health, San Francisco, CA.
- Luke, D. A. (1999, June). *Wearing multiple hats: Statistics, public health, and community psychology*. Paper presented at the 7th Biennial Conference of the Society for Community Research and Action, New Haven, CT.
- Luke, D. A. (1998, March). *A cloudy view: Teens' images of smokers*. Paper presented at the 4th Annual Scientific Sessions of the Society for Research on Nicotine and Tobacco, New Orleans, LA.
- Esmundo, E., Luke, D. A., & Rafii, R. (1998, March). *Smoke signs: An analysis of tobacco billboard advertising*. Poster presented at the 4th Annual Scientific Sessions of the Society for Research on Nicotine and Tobacco, New Orleans, LA.
- Luke, D. A. (1997, May) *Virtual self-help: The emergence of online support groups*. Paper presented at the 5th Biennial Conference on Community Research & Action, Columbia, SC.
- Luke, D. A., Weber, D., Cromer, L. (1996, November). *Gender, race and maps: Dimensions of functional value of teen smoking*. Paper presented at the 124th Annual Meeting of the American Public Health Association, New York, NY.
- Luke, D. A., Breer, M. L., Campbell, R., Embree, M. G., Englund, S., Huber-Yoder, M. S., Lizotte, H. A. (1993, June). *Concept Mapping: Using a new technique to understand feminist issues*. Symposium presented at the 4th Biennial Conference on Community Research & Action, Williamsburg, VA.
- Klump, K., Luke, D. A., Mowbray, C. (1993, June). *Exploring diversity in a dual-diagnosis population: An example of cluster analysis*. Paper presented at the 4th Biennial Conference on Community Research & Action, Williamsburg, VA.
- Ribisl, K., Luke, D., Mowbray, C., Boots, B., Davidson, W., Dinverno, A. M., & Kewson, T. (1992, November). *Specialized dual-diagnosis treatment: Short-term evaluation findings*. Paper presented at the American Public Health Association's 120th Annual Meeting, Washington, DC.

- Luke, D. A., & Roberts, L. J. (1992, August). *A two stage model of self-help group participation*. Paper presented at the Centennial Convention of the American Psychological Association, Washington, DC.
- Mowbray, C., & Luke, D. (1992, August). *Characteristics of dually diagnosed patients in a public psychiatric hospital: Subgroup differences*. Paper presented at the Centennial Convention of the American Psychological Association, Washington, DC.
- Ribisl, K., Luke, D., Mowbray, C., Davidson, W., & Boots, B. (1992, August). *Results on the short-term effectiveness of a specialized, inpatient, treatment program for the dually diagnosed*. Paper presented at the Centennial Convention of the American Psychological Association, Washington, DC.
- Luke, D. A. (1991, June). *Measuring change in a self-help group: Outcome redefined*. Paper presented at the 3rd Biennial Conference on Community Research & Action, Tempe, AZ.
- Luke, D. A., Boots, B., Wordes, M., & Ribisl, K. (1991, June). *The social ecology of inpatient dual-diagnosis treatment settings*. Paper presented at the 3rd Biennial Conference on Community Research & Action, Tempe, AZ.
- Luke, D. A. (1991, November). *Evaluations at the cutting edge of mental health interventions: Self-help groups*. Paper presented at the American Evaluation Association Annual Meeting, Chicago, IL.
- Luke, D. A., & Stewart, M. (1989, October). *The self-help center: An innovative setting for service provision*. Paper presented at the Biennial Family Service America National Conference, Tampa, FL.
- Luke, D. A. (1989, June). *Open systems and the search for valid methods*. Paper presented at the Second Biennial Conference on Community Research & Action, East Lansing, MI.
- Luke, D. A. (1989, June). *Assessing individual change in a mutual help organization*. Paper presented at the Second Biennial Conference on Community Research & Action, East Lansing, MI.
- Luke, D. A. (1989, June). *Action anthropology and the context of community help*. Paper presented at the Second Biennial Conference on Community Research & Action, East Lansing, MI.
- Luke, D. A. (1988, July). *Cluster analysis and the formation of setting taxonomies*. Paper presented at the 21st Annual Mathematical Psychology Meeting, Evanston, IL.
- Luke, D. A. (1987, May). *The impact of organizational culture on group behavior*. Paper presented at the First Biennial Conference on Community Research and Action, Columbia, SC.

- Toro, P. A., Roberts, L. J., Luke, D. A., Rappaport, J., Seidman, E. (1986, November). *Evaluation research on mutual help groups*. Paper presented at the 20th Annual AABT Conference, Chicago, IL.
- Luke, D. A. (1985, October). *Ecologically based definitions of 'minority'*. In D. A. Luke (Chair), *Defining 'minority:' Should we accept the majority view?* Symposium conducted at the 1985 Annual Midwestern Eco-Community Conference, Gurnee, Illinois.
- Luke, D. A. (1985, August). *Computerizing the clinic: Practical, financial and ethical issues*. Paper presented at the 93rd Annual Meeting of the American Psychological Association, Los Angeles, CA.
- Luke, D. A., & Rapkin, B. (1985, August). *Behavioral differences among groups within a mutual help organization*. Paper presented at the 93rd Annual Meeting of the American Psychological Association, Los Angeles, CA.

PROFESSIONAL SERVICE

Board Memberships

Member, External Advisory Board, Center for Clinical and Translational Sciences, University of Illinois at Chicago (UIC), 2011-2020.

Board Member, St. Louis Wind Symphony, 2009-Present.

Advisory Board Memberships

Member, Evaluation Consultant Group (ECG). Division of Cancer Prevention and Control (DCPC) at the Centers for Disease Control and Prevention (CDC). 2012-2015.

Member, *Interagency Committee on Smoking and Health*, U.S. Department of Health & Human Services. 2012-2015.

Grant and Contract Proposal Reviews:

Review panel member – Gulf Research Program, National Academies of Sciences, Engineering, and Medicine, 2019.

CSR Study Section Member – *Community Influences on Health Behavior (CIHB)*. National Institute of Health, 2005-2011.

Review Panel – *ICTS Novel Methodologies and Pilot Studies Program*, Washington University Institute of Clinical and Translational Sciences, 2008.

Contract Review Panel – *National Treatment Outcomes Monitoring System*, Substance Abuse and Mental Health Services Administration, 2002.

Contract Review Panel – *National Analytic Center for the National Household Survey on Drug Abuse*, Substance Abuse and Mental Health Services Administration, 1999.

Program Project Review Panel – *Tobacco Use and Oral Cancer: Etiology and Prevention*, National Institute of Dental & Craniofacial Research, 1999.

Scientific Peer Review Panel – Small Project Special Review Committee, Agency for Health Care Policy & Research, 1998.

Editorial:

Implementation Science

American Journal of Community Psychology

Tobacco Control

American Journal of Public Health

American Journal of Evaluation

Health Education & Behavior

Preventive Medicine

Journal of Gerontology: Social Sciences

Psychological Assessment

Evaluation and Program Planning

British Journal of Social Psychology

Evaluation and Program Planning

Book reviewer for Enslow Publishers.

Student editor, *American Journal of Community Psychology* (1989)

Other Professional Service Activities:

President, Saint Louis University School of Public Health Faculty Assembly, 2006-2007.

Member, *Missouri's Comprehensive Tobacco Use Prevention Program Strategic Plan Workgroup*, 2006.

Member, Special Tobacco Program Review Panel, Pennsylvania Department of Health.

Member, Task Force on Nicotine Dependence, United HealthCare, 1999.

Member, Family Advocacy and Education Program Advisory Council, Family Service of Champaign County, 1986.

Midwest Region Student Representative, Society for Community Research & Action, 1985.

Professional Affiliations:

American Public Health Association

Society for Community Research & Action

American Statistical Association
Classification Society of North America
International Network for Social Network Analysis

COURSES TAUGHT

Washington University, 2008-2019:

Multilevel and Longitudinal Modeling
Social Network Analysis
Conceptual Foundations of Social Science Research
Theoretical Orientations in Public Health Sciences
Transdisciplinary Problem-Solving: Tobacco Control in Public Health

Saint Louis University, 1994-2008:

Principles of Biostatistics
Multilevel and Longitudinal Modeling
Analysis of Variance
Social Network Analysis
Cluster Analysis
Exploratory Data Analysis
Applied Data Management
Ph.D. Seminar in Design and Analysis

Harvard University, 2001:

Multivariate Statistical Analysis

Michigan State University, 1991-1994:

Alternative Research Methods for Social Scientists
Proseminar in Ecological Psychology
Psychological Statistics
Seminar in Mental Health Service Systems Research

University of Illinois, 1983-1990:

Advanced Quantitative Methods - Analysis of Variance
Abnormal Psychology
Programming Advanced Database Applications
Clinical Psychology
Introduction to Psychology