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## **ACADEMIC APPOINTMENTS**

- 2016 – Associate Professor, Department of Psychology, Michigan State University
- 2014 – 2016 Assistant Professor, Department of Psychology, Michigan State University
- 2009 – 2014 Assistant Professor, Department of Sociology, Michigan State University

## **EDUCATION**

- 2009 PhD in Sociology, University of Illinois at Chicago
- 2005 MA in Sociology, University of Illinois at Chicago
- 2001 BA in Philosophy & Classics, University of Arizona, Tucson

## **EDITORSHIPS**

- 2018 – Editorial Board, *American Journal of Community Psychology*
- 2017 – Associate Editor, *Evidence and Policy*
- 2015 – Managing Editor, *Journal of Urban Affairs*
- 2013 – Associate Director, *Globalization and World Cities (GaWC) Research Network*
- 2012 – Associate Editor, *Global Networks*
- 2009 – Editorial Board, *City & Community*
- 2007 – Series Editor, *The Metropolis and Modern Life* (Routledge Book Series)
- In progress Special issue editor, "On the Edge: Peripheries in Urban and Economic Networks" in *Global Networks*
- In progress Special issue editor, "Complexity and the City" in *Applied Network Science*
- In progress Special issue editor, "Cities, Networks, and Urban Policy" in *Journal of Urban Affairs*
- 2018 Special issue editor, "Intersections Between Urban Studies and Network Science" in *Networks and Spatial Economics*, 18(3)
- 2017 Special issue editor, "Diversity and Sense of Community" in *American Journal of Community Psychology*, 59(3-4)
- 2003 – 2009 Managing Editor, *City & Community*

## **FELLOWSHIPS**

- 2019 – 2020 Fellow, MSU Hub for Innovation in Learning and Technology
- 2015 – 2016 Senior Fellow, Brookings Metropolitan Policy program

## **BOOKS**

4. Rozenblat, C. & Neal, Z. P., eds. (Under contract). *Handbook of Cities and Networks*. Northampton, MA: Edward Elgar.
3. Neal, Z. P., ed. (2016). *The Handbook of Applied Systems Science*. New York: Routledge.
2. Neal, Z. P. (2013). *The Connected City: How Networks are Shaping the Modern Metropolis*. New York: Routledge.
1. Orum, A. M., & Neal, Z. P., eds. (2010). *Common Ground? Readings and Reflections on Public Space*. New York: Routledge.

## **PEER-REVIEWED ARTICLES** [students are underlined]

63. Neal, Z. P. (In press.) Comparing urban sociology's human ecology and community psychology's ecological metaphor. *American Journal of Community Psychology*.
62. Mills, K. J., Lawlor, J. A., Neal, J. W., Neal, Z. P., & McAlindon, K. (In press). What is research? Educators' conceptions and alignment with U.S. federal policies. *Evidence and Policy*.
61. Neal, Z. P. (In press). A sign of the times? Weak and strong polarization in the U.S. Congress, 1973 – 2016. *Social Networks*.
60. Neal, J. W., Neal, Z.P., Mills, K. J., Lawlor, J. A., & McAlindon, K. (2019). What types of brokerage bridge the research-practice gap? The case of public school educators. *Social Networks*, 59, 41-49.
59. Lawlor, J. A., Mills, K. J., Neal, Z. P., Neal, J. W., Wilson, C., & McAlindon, K. (2019). Approaches to measuring use of research evidence in K-12 settings: A systematic review. *Educational Research Review*, 27, 218-228.
58. McAlindon, K., Neal, J. W., Neal, Z. P., Mills, K. J., & Lawlor, J. A. (2019) The BOND framework: A practical application of design and communication theories to advance evaluation reporting. *American Journal of Evaluation*, 40, 291-305.
57. Neal, Z. P., Lawlor, J., Neal, J. W., Mills, K., & McAlindon, K. (2019). Just google it: Measuring schools' use of research evidence with internet search results. *Evidence and Policy*, 15, 103-123.
56. Neal, J. W. & Neal, Z. P. (2019). Implementation capital: merging frameworks of implementation outcomes and social capital to support the use of evidence-based practices. *Implementation Capital*, 14, 16.
54. Neal, J. W., Mills, K. J., McAlindon, K., Neal, Z. P., & Lawlor, J. A. (2019). Multiple audiences for encouraging research use: Uncovering a typology of educators. *Educational Administration Quarterly*, 55, 154-181.
54. Neal, Z. P., Derudder, B., & Taylor, P. J. (2019). Should I stay or should I go: Predicting advanced producer services firm expansion and contraction. *International Regional Science Review*, 42, 207-229.
53. Derudder, B. & Neal, Z. P. (2018). Uncovering links between urban studies and network science. *Networks and Spatial Economics*, 18, 441-446.
52. Neal, Z. P. (2018). Is the urban world small? The evidence for small world structure in urban networks. *Networks and Spatial Economics*, 18, 615-631
51. Neal, Z. P., Neal, J. W., Mills, K. J., & Lawlor, J. A. (2018). Making or buying evidence: Using transaction cost economics to understand decision-making in public school districts. *Evidence and Policy*, 14, 707-724.

50. Neal, J. W., Neal, Z. P., Lawlor, J. A., Mills, K. J., & McAlindon, K. (2018). What makes research useful for public school educators? *Administration and Policy in Mental Health and Mental Health Services Research*, 45, 432-446.
49. Neal, Z. P. (2018). The urban metabolism of airline passengers: Scaling and sustainability. *Urban Studies*, 55, 212-225. (honorable mention for Urban Studies Best Article Award)
48. Neal, Z. P., & Neal, J. W. (2017). "We didn't say that": Challenges in the public dissemination of a research finding with controversial implications. *American Journal of Community Psychology*, 60, 424-429.
47. Neal, Z. P. (2017). Well connected compared to what? Rethinking frames of reference in world city network research. *Environment and Planning A*, 49, 2859-2877.
46. Neal, Z. P., & Neal, J. W. (2017). Network analysis in community psychology: Looking forward, looking back. *American Journal of Community Psychology*, 60, 279-295.
45. Neal, Z. P. (2017). Taking stock of the Diversity and Sense of Community Debate. *American Journal of Community Psychology*, 59, 255-260.
44. Neal, Z. P. (2017). How small is it? Comparing indices of small worldliness. *Network Science*, 5, 30-44.
43. Collins, C., Neal, Z. P., & Neal, J. W. (2017). Transforming Social Cohesion into Informal Social Control: Deconstructing Collective Efficacy and the Moderating Role of Neighborhood Racial Homogeneity. *Journal of Urban Affairs*, 3, 307-322.
42. Lawlor, J. A., Neal, Z. P. (2016). Networked community change: Understanding community systems change through the lens of social network analysis. *American Journal of Community Psychology*, 57, 426-436.
41. Van Meeteren, M., Neal, Z. P., & Derudder, B. (2016). Disentangling agglomeration and network externalities: A conceptual typology. *Papers in Regional Science*, 95, 61-80.
40. Neal, J. W., Neal, Z. P., & Cappella, E. (2016). Seeing and being seen: Predictors of accurate perceptions about classmates' relationships. *Social Networks*, 44, 1 – 8.
39. Johansen, R., Neal, Z. P., & Gasteyer, S. (2015). The view from a broken window: How residents make sense of neighbourhood disorder in Flint. *Urban Studies*, 52, 3054-3069.
38. Neal, J. W., Neal, Z. P., Kornbluh, M., Mills, K., & Lawlor, J. (2015). Brokering the research-practice gap: A typology. *American Journal of Community Psychology*, 56, 422-435.
37. Neal, Z. P., Neal, J. W., Lawlor, J., & Mills, K. (2015). Small worlds or worlds apart? Using network theory to understand the research-practice gap. *Psychosocial Interventions*, 24, 177-184.
36. Neal, Z. P. (2015). Making big communities small: Using network science to understand the ecological and behavioral requirements for community social capital. *American Journal of Community Psychology*, 55, 369 – 380.
35. Olson, R. S. & Neal, Z. P. (2015). Navigating the massive world of reddit: using backbone networks to map user interests in social media. *PeerJ Computer Science*, 1, e4.
34. Neal, J. W., Neal, Z. P., VanDyke, E., & Kornbluh, M. (2015). Expediting the analysis of qualitative data in evaluation: A procedure for the rapid identification of themes from audio recordings (RITA). *American Journal of Evaluation*, 36, 118 – 132.
33. Collins, C., Neal, J. W., & Neal, Z. P. (2014). Transforming Individual Civic Engagement into Community Collective Efficacy: The Role of Bonding Social Capital. *American Journal of Community Psychology*, 54, 328 – 336.
32. Neal, Z. P. (2014). Validity in world city network measurements. *Tijdschrift voor economische en sociale geografie*, 105, 427 – 443.

31. Neal, Z. P. (2014). The backbone of bipartite networks: Inferring relationships from co-authorship, co-sponsorship, co-attendance and other co-behaviors. *Social Networks*, 39, 84 – 97.
30. Neal, J. W., Neal, Z. P., & Cappella, E. (2014). I know who my friends are, but do you? Predictors of self-reported and peer inferred relationships. *Child Development*, 85, 1366 – 1372.
29. Neal, Z. P. (2014). A network perspective on the processes of empowered organizations. *American Journal of Community Psychology*, 53, 407 – 418.
28. Neal, Z. P. (2014). The devil is in the details: Differences in air traffic networks by scale, species, and season. *Social Networks*, 38, 63 – 73.
27. Neal, Z. P., & Neal, J. W. (2014). The in(compatibility) of diversity and sense of community. *American Journal of Community Psychology*, 53, 1 – 12.
26. Neal, Z. P. (2014). AIRNET: a program for generating intercity networks. *Urban Studies*, 51, 136 – 152.
25. Neal, Z. P. (2013). Identifying statistically significant edges in one-mode projections. *Social Network Analysis and Mining*, 3, 915 – 924.
24. Neal, Z. P. (2013). Evolution of the business air travel network in the US from 1993 – 2011: A descriptive analysis using AIRNET. *Research in Transportation Business and Management*, 9, 5 – 11.
23. Neal, J. W., & Neal, Z. P. (2013). Nested or networked? Future directions for ecological systems theory. *Social Development*, 22, 722 – 737.
22. Neal, Z. P., & Neal, J. W. (2013). Opening the black box of social cognitive mapping. *Social Development*, 22, 604 – 608.
21. Neal, J. W., & Neal, Z. P. (2013). The multiple meanings of peer groups in social cognitive mapping. *Social Development*, 22, 580 – 594.
20. Neal, Z. P. (2013). The "AIRNET 2000" data and AIRNET program. *Connections*, 33, 43 – 45.
19. Neal, Z. P. (2013). A computationally efficient approximation of beta centrality. *Connections*, 33, 11 – 17.
18. Neal, Z. P. (2013). Does world city network research need eigenvectors? *Urban Studies*, 50, 1490 – 1501.
17. Neal, Z. P. (2013). Brute force and sorting processes: two perspectives on world city network formation. *Urban Studies*, 50, 1277 – 1291.
16. Neal, Z. P., & Neal, J. W. (2012). The public school as a public good: direct and indirect pathways to community satisfaction. *Journal of Urban Affairs*, 34, 469 – 485.
15. Neal, Z. P. (2012). Creative employment and jet set cities: disentangling causal effects. *Urban Studies*, 49, 2693 – 2709.
14. Neal, Z. P. (2012). Structural determinism in the interlocking world city network. *Geographical Analysis*, 44, 162 – 170.
13. Liu, X., Neal, Z. P., & Derudder, B. (2012). City networks in the United States: a comparison of four models. *Environment and Planning A*, 44, 255 – 256.
12. Neal, J. W., & Neal, Z. P. (2011). Power as a structural phenomenon. *American Journal of Community Psychology*, 48, 157 – 167.
11. Neal, Z. P. (2011). Differentiating centrality and power in the world city network. *Urban Studies*, 48, 2735 – 2750.

10. Neal, Z. P., & Kassens-Noor, E. (2011). The business passenger niche: comparing legacy carriers and southwest during a national recession. *Journal of Air Transport Management*, 17, 231 – 232.
9. Neal, Z. P. (2011). The causal relationship between employment and business networks in US cities. *Journal of Urban Affairs*, 33, 167 – 184.
8. Neal, J. W., Neal, Z. P., Atkins, M. S., Henry, D. H., & Frazier, S. L. (2011). Channels of change: contrasting network mechanisms in the use of interventions. *American Journal of Community Psychology*, 47, 277 – 286.
7. Neal, Z. P. (2011). From central places to network bases: a transition in the US urban hierarchy, 1900 – 2000. *City and Community*, 10, 49 – 74.
6. Neal, Z. P. (2010). Refining the air traffic approach to city networks. *Urban Studies*, 47, 2195 – 2215.
5. Neal, Z. P. (2010). Seeking common ground: three perspectives on public space. *Urban Design and Planning*, 163(DP2), 59 – 66.
4. Neal, Z. P. (2008). The duality of world cities and firms: comparing networks, hierarchies, and inequality in the global economy. *Global Networks*, 8, 94 – 115.
3. Popielarz, P., & Neal, Z. P. (2007). The niche as a theoretical tool. *Annual Review of Sociology*, 33, 65 – 84.
2. Neal, Z. P. (2006). Culinary deserts, gastronomic oases: a classification of US cities. *Urban Studies*, 43, 1 – 21.
1. Neal, Z. P. (2001). The coherence of value. *STOA: International Undergraduate Journal of Philosophy*, 2, 86 – 93.

**BOOK CHAPTERS, RESEARCH REPORTS, PROCEEDINGS** [students are underlined]

17. Neal, J. W., & Neal, Z. P. (In press). Network analysis in evaluation research. In *Evaluation Research: Partnership Approaches for Community Change*, edited by Jim Cook & Ryan Kilmer. Thousand Oaks, CA: Sage.
16. Neal, Z. P. (In press). The spatial dimensions of social networks. In *The Oxford Handbook of Social Networks*, edited by James Moody & Ryan Light. New York: Oxford University Press.
15. Neal, Z. P. (2018). Analyzing cities as networks. In *Doing Global Urban Research*, edited by John Harrison & Michael Hoyler. Thousand Oaks, CA: Sage.
14. Neal, Z. P. (2017). The future of urban networks. Proceedings of the workshop on Leveraging Advanced in Social Network Thinking for National Security. *National Academies of Sciences, Engineering, and Medicine*.
13. Michigan School Program Information Project. (2017). Statewide findings report, Fall.
12. Michigan School Program Information Project. (2017). Statewide findings report, Winter.
11. Barry, J., Lawlor, J. A., Neal, Z. P. (2017). Increasing understanding of the Michigan Good Food Charter network. *Michigan State University, Center for Regional Food Systems*.
10. Michigan School Program Information Project. (2016). Statewide findings report, Fall.
9. Neal, Z. P. (2015). Reflections on *City and Community* and the future of urban studies. *City and Community*, 14, 242 – 244.
8. Neal, Z. P., & Lawlor, J. (2015). Agent based models. Pp. 197 – 206 in *Handbook of methodological approaches to community-based research: Qualitative, quantitative, and mixed methods*, edited by Jason LA & Glenwick DS. New York: Oxford University Press.

7. Neal, Z. P. (2014). Types of hub cities and their effects on urban creative economies. Pp. 203 – 222 In *Hub Cities and the Knowledge Economy*, edited by Conventz S, Derudder B, Thierstein A, & Witlox F. Ashgate.
6. Tomer, A., Puentes, R., & Neal, Z. P. (2012). Global gateways: international aviation in metropolitan America. *Brookings Institution, Metropolitan Policy Program*.
5. Neal, Z. P. (2012). Community. In *Oxford Bibliographies in Sociology*, edited by Manza J. New York: Oxford University Press.
4. Neal, Z. P. (2011). Urban Networks. Pp. 911 – 915 in *Encyclopedia of Social Networking*, edited by Barnett GA. Thousand Oaks, CA: Sage.
3. Neal, Z. P. (2011). Proximity/Space. Pp. 721 – 723 in *Encyclopedia of Social Networking*, edited by Barnett GA. Thousand Oaks, CA: Sage.
2. Neal, Z. P. (2010). Public Realm. Pp. 623 – 27 in *Encyclopedia of Urban Studies*, edited by Hutchison R. Thousand Oaks, CA: Sage.
1. Neal, Z. P. (2010). Urban Space. Pp. 927 – 30 in *Encyclopedia of Urban Studies*, edited by Hutchison R. Thousand Oaks, CA: Sage.

#### **BOOK REVIEWS, ESSAYS, AND OTHER PUBLICATIONS**

12. Neal, Z. P. (2017). Review of *Geomedia: Networked Cities and the Future of Public Space*, by Scott McQuire. *Canadian Journal of Urban Research*, 26, 64.
11. Neal, Z. P. (2016). Review of *Communities and Networks: Using Social Network Analysis to Rethink Urban and Community Studies*, by Katherine Guiffre. *Urban Studies*, 53, 841-844.
10. Neal, Z. P. (2015). Review of *Analyzing Social Networks*, by Stephen Borgatti, Martin Everett, and Jeffrey Johnson. *Journal of Mathematical Sociology*, 39, 221 – 222.
9. Neal, Z. P. (2014). Review of *Networked: The New Social Operating System*, by Lee Rainie and Barry Wellman. *City and Community*, 12, 412 – 414.
8. Neal, Z. P. (2014). Review of *Small Cities USA: Growth, Diversity, and Inequality*, by Jon R. Norman. *American Journal of Sociology*, 119, 1174 – 1176.
7. Neal, Z. P. (2013). Smart Connections. *RSA Journal*, Spring, 26 – 29.
6. Neal, Z. P. (2013). Review of *The Great Inversion and the Future of the American City*, by Alan Ehrenhalt. *City and Community*, 12, 280 – 282.
5. Neal, Z. P. (2012). Review of *International Handbook of Globalization and World Cities*, edited by Derudder B, Hoyler M, Taylor PJ, Witlox F. *Economic Geography*, 89, 101 – 102.
4. Neal, Z. P. (2012). Review of *Second Cities: Globalization and Local Politics in Manchester and Philadelphia*, by Jerome I. Hodos. *International Journal of Comparative Sociology*, 53, 237 – 239.
3. Neal, Z. P. (2010). Review of *A Neighborhood that Never Changes: Gentrification, Social Preservation, and the Search for Authenticity*, by Japonica Brown Saracino. *Contemporary Sociology*, 39, 557 – 559.
2. Neal, Z. P. (2009). Managing Editor's Farewell. *City and Community*, 8, 209.
1. Neal, Z. P. (2008). Normality. *Contexts*, 7(2), 4.

#### **DATA**

1. Neal, Z. P. (2019). A Sign of the Times: Weak and strong polarization in the U.S. Congress, 1973-2016. *FigShare*. doi: 10.6084/m9.figshare.8096429.v2

## **SOFTWARE**

4. Neal, Z. P. (2015). Stata command: ONEMODE. Boston: Statistical Software Components.
3. Neal, Z. P. (2013). Stata command: AIRNET. Boston: Statistical Software Components.
2. Neal, Z. P. (2012). Stata command: SCM. Boston: Statistical Software Components.
1. Neal, Z. P. (2010). Stata command: CENTPOW. Boston: Statistical Software Components.

## **EXTERNAL FUNDING** [students are underlined]

- |             |  |
|-------------|--|
| 2019 – 2020 | PI, Extracting the backbone of bipartite projections. National Science Foundation, \$119,904.  |
| 2018 – 2019 | PI (with M. Weber, I. Yanovitzky, & J. W. Neal), Knowledge Brokerage and Evidence-Informed Policymaking and Practitioner Decision Making to Improve Youth Outcomes. William T. Grant Foundation, \$48,899. |
| 2018 – 2019 | PI (with J. W. Neal), Social Capital and Educator Social Networks as Facilitators in the Implementation of School-Based Evidence-Based Programs and Practices. Spencer Foundation, \$47,970.               |
| 2016        | PI (with B. Derudder), The Future of Urban Networks. Urban Studies Foundation, £20,000.  |
| 2016        | PI (with <u>J. A. Lawlor</u> ), Michigan Modeling Collaborative. Society for Community Research and Action, \$1,250.   |
| 2015 – 2017 | PI (with J. W. Neal), Examining how public school administrators acquire research evidence about mental health programming through social networks. National Institute of Mental Health, \$412,480.        |
| 2014 – 2017 | PI (with J. W. Neal), Intermediaries' role in transferring research evidence from "producers" to "consumers": The case of school-based programs. William T. Grant Foundation, \$540,126.                   |
| 2013 – 2014 | PI (with J. W. Neal), Exploring school district administrators' acquisition and use of research evidence about instructional, health, and social skills programs. William T. Grant Foundation, \$24,998.   |
| 2008        | PI, The seeds of collaboration: an examination of graduate student social networks. Midwest Sociological Society Endowment Grant, \$1,100.   |

## **INVITED PRESENTATIONS & WORKSHOPS**

14. Neal, Z. P. (2019). Haven't I seen you here before: Using proximity to measure networks in and between cities. On the Edge Symposium Keynote, University of Western Australia, July 18, Perth, AUSTRALIA.
13. Neal, Z. P. (2017). National urban policy: Shared space or divided space? Advanced Brainstorm Carrefour (ABC) "Shared Spaces in Smart Places," Harvard University. November 6, Cambridge, MA.
12. Neal, Z. P. (2017). The Future of Urban Networks. Workshop on Leveraging Advances in Social Network Thinking for National Security Purposes, *National Academies of Science, Engineering, and Medicine*. October 11, Washington, DC.
11. Neal, Z. P. (2017). Polarization: Do we need to "mind the gap"? Freeman Award Lecture, International Network for Social Network Analysis (Sunbelt), June 2, Beijing, CHINA.
10. Neal, Z. P. & Lawlor, J. A. (2016). Workshop on agent-based modeling, and zombies. Michigan Modeling Collaborative, November 4, East Lansing, MI.

9. Neal, Z. P. (2016). Are cohesive, integrated communities possible? *Duke Network Analysis Center*, February 1, Durham, NC.
8. Neal, Z. P. (2014). Comparing real and possible interlocking world city networks. ARL International Summer School on Global Urban Networks, September 1, Loughborough, UK.
7. Neal, Z. P. (2014). Making big cities small: behavioral and environmental requirements for the formation of small world networks. Tinbergen Institute Workshop, May 19, Amsterdam, NETHERLANDS.
6. Neal, Z. P. (2013). Urban networks at micro- and macro-scales. Swansea University, May 15, Swansea, UK.
5. Neal, Z. P. (2013). Are diverse communities possible? Royal Society for the Encouragement of Arts, Manufactures, and Commerce, May 13, London, UK
4. Neal, Z. P. (2012). Measurement and metabolism in air traffic networks. ASU Global Institute of Sustainability Workshop on Urban Networks, Sustainability, and Resilience, November 1, Tempe, Arizona.
3. Neal, Z. P. (2012). Sustainability and formation of dynamic urban networks. INSITE Workshop on General Processes of Networks' Emergence and Sustainability, September 17, Venice, ITALY.
2. Neal, Z. P. (2011). Secret gardens: locating and understanding hidden public spaces. Great Cities/Ordinary Lives Conference, September 16 – 17, Chicago, IL.
1. Neal, Z. P. (2008). Why networks matter for cities: some historical and methodological considerations. City as System conference, Martin Prosperity Institute (University of Toronto), October 10, Toronto, ON.

**SELECTED RESEARCH PRESENTATIONS** [students are underlined]

- Aref, S. & Neal, Z. P. (2019). Analyzing the impact of polarization and bipartisanship on legislative effectiveness through balance and partitioning of signed networks. International Conference on Computational Social Science, July 18, Amsterdam, NETHERLANDS.
- Neal, Z. P. & Domagalski, R. (2019). Evaluating the extraction of signed networks from bipartite projections. International Network for Social Network Analysis, June XX, Montreal, CANADA.
- Neal, J. W. & Neal, Z. P. (2019). Implementation capital: merging frameworks of implementation outcomes and social capital to support the use of evidence-based practices. International Network for Social Network Analysis, June XX, Montreal, CANADA.
- Aref, S. & Neal, Z. P. (2019). Legislative effectiveness hangs in the balance. International Network for Social Network Analysis, June XX, Montreal, CANADA.
- Neal, Z. P., Derudder, B., & Taylor, P. J. (2019). Forecasting the world city network. American Association of Geographers, April 6, Washington DC.
- Neal, Z. P. (2019). Panelist, Symposium on Human Dynamics Research in the Age of Smart/Intelligent Systems: Prospects of Integrating Spatial and Social Network Analyses. American Association of Geographers, April 5, Washington DC.
- Neal, J. W., Neal, Z. P., Mills, K. J., Lawlor, J. A., & McAlindon, K. Knowing Who to Ask: Educators' Use of Network Brokers to Learn about Social Skills Programs. Society for Research in Child Development, March 23, Baltimore.
- Dillon, D. T., Buerger, A. N., Neal, Z. P., Bisesi, J. H. (2018). Impacts of diethylhexyl phthalate (DEHP) on the gut microbiome of *Danio rerio* (zebrafish): The utility of stochastic degree



- sequence modeling and network analysis. Southeast Regional Meeting of Society of Environmental Toxicology and Chemistry (Poster). [1<sup>st</sup> Place in student poster competition]
- Neal, Z. P. (2018). Is the urban world small? The evidence for small world structure in urban networks. International Network for Social Network Analysis, June 30, Utrecht, NETHERLANDS.
- Neal, J. W., Neal, Z. P., Mills, K. J., Lawlor, J. A., McAlindon, K. (2018). What types of brokers bridge the gap between educators and researchers? International Network for Social Network Analysis, June 28, Utrecht, NETHERLANDS.
- Neal, Z. P., Neal, J. W., Mills, K. J., Lawlor, J. A., McAlindon, K. (2018). Tracking public school educators' search for information using a small world survey. International Network for Social Network Analysis, June 27, Utrecht, NETHERLANDS.
- Neal, J. W., Mills, K. J., McAlindon, K., Neal, Z. P., Lawlor, J. A. (2018). Multiple audiences for encouraging research use: Uncovering a typology of educators. American Education Research Association, April 13, New York.
- Neal, Z. P. (2018). It's complicated: What are the relationships in global urban networks. American Association of Geographers, April 12, New Orleans.
- Neal, Z. P. (2018). Should I stay or should I go: World city growth through advanced producer firm entry and exit. Urban Affairs Association, April 6, Toronto, CANADA.
- Neal, J. W., Neal, Z. P. Wilson, C. (2018). Urban and non-urban differences in public school educators' reliance on brokers to bridge the research-practice gap. Urban Affairs Association, April 6, Toronto, CANADA.
- Lawlor, J., Neal, Z. P. (2017). When theory meets practice: Exploring challenges to information sharing networks for community change. North American Social Networks, July 29, Washington, DC.
- Neal, J. W., Neal, Z. P., Lawlor, J., McAlindon, K., Mills, K. (2017). Capitalizing on small worlds: A network intervention to narrow the communication gap between researchers and public school educators. North American Social Networks, July 27, Washington, DC.
- Neal, Z. P. (2017). A sign of the times? Alliances and antagonisms in the U.S. Congress, 1973-2016. North American Social Networks, July 27, Washington, DC.
- Neal, J. W., Neal, Z. P., Lawlor, J., McAlindon, K., Mills, K. (2017). Social networks as an infrastructure for improving school administrators' access to research evidence. Society for Community Research and Action, June 23, Ottawa, CANADA.
- Lemke, M. K., Neal, Z. P. Lounsbury, D., Brown, M., Apostolopoulos, Y. (2017). Complex system science in community psychology: A town hall for innovating research and action. Society for Community Research and Action, June 22, Ottawa, CANADA.
- Neal, Z. P., Neal, J. W. (2017). Using network analysis in community psychology: Practices and best practices. Society for Community Research and Action, June 21, Ottawa, CANADA.
- Neal, J. W., Neal, Z. P., McAlindon, K., Lawlor, J., Mills, K. (2017). Making the world smaller: A network intervention to improve public school educators' access to and use of research evidence. International Network for Social Network Analysis (Sunbelt), June 3, Beijing, CHINA.
- Neal, Z. P. (2017). Structural Balance and Polarization in the U.S. Congress, 1973-2016. International Network for Social Network Analysis (Sunbelt), May 31, Beijing, CHINA.
- Vandegrift, C. & Neal, Z. P. (2017). Exploration of homelessness and housing instability: An agent-based model. Urban Affairs Association, April 22, Minneapolis, MN.

- Neal, Z. P., Neal, J. W., McAlindon, K., Lawlor, J., Mills, K. (2017). The spatial diffusion of information for education policy decision-making. Urban Affairs Association, April 21, Minneapolis, MN.
- Neal, J. W. & Neal, Z. P. (2017). How to prioritize when you're drowning in data. William T. Grant Mixed Methods Workshop, April 20, University of California – Los Angeles.
- Neal, J. W., Neal, Z. P., Mills, K., Lawlor, J., McAlindon, K. (2017). Understanding how social networks facilitate the use of evidence by public school administrators. Society for Research on Child Development, April 8, Austin, TX.
- Neal, Z. P., Derudder, B., & Taylor, P. (2017). Should I stay or should I go: World city growth through advanced producer firm entry and exit. American Association of Geographers, April 6, Boston, MA.
- Neal, Z. P. & Neal, J. W. (2017). The nitty gritty of using network analysis to find brokers. William T. Grant Foundation Research Evidence Meeting, February 14, Washington, DC.
- Neal, J. W. & Neal, Z. P. (2017). Using networks to understand brokering research evidence in schools. William T. Grant Foundation Research Evidence Meeting, February 13, Washington, DC.
- Neal, Z. P. & Neal, J. W. (2017). Replicating Milgram's small world experiment. International Convention on Psychological Science, March 24, Vienna, AUSTRIA.
- Neal, Z. P. & Neal, J. W. (2016). Intermediaries that broker evidence-based practices for schools. William T. Grant Foundation Research Evidence Meeting, April 21, Washington, DC.
- Neal, Z. P. (2016). Panel on Teaching network science to university undergraduates. International Network for Social Network Analysis (Sunbelt), April 8, Newport Beach, CA.
- Neal, Z. P. (2016). The value of affiliation: Dealing with valued two-mode networks. International Network for Social Network Analysis (Sunbelt), April 8, Newport Beach, CA.
- Neal, Z. P., Neal, J. W., Mills, K., & Lawlor, J. A. (2016). Using networks to facilitate the use of research evidence by public school administrators. International Network for Social Network Analysis (Sunbelt), April 7, Newport Beach, CA.
- Lawlor, J. A. & Neal, Z. P. (2016). Modeling information sharing networks in community change efforts. International Network for Social Network Analysis (Sunbelt), April 6, Newport Beach, CA.
- Neal, Z. P. (2016). Panel on *Jerusalem: The Spatial Politics of a Divided Metropolis*, by Anne B. Shlay and Gillad Rosen. Urban Affairs Association, March 17, San Diego, CA.
- Neal, J. W., Neal, Z. P., Mills, K., & Lawlor, J. A. (2016). Making or buying research: Using transaction cost economics to understand decision making in public schools. Urban Affairs Association, March 17, San Diego, CA.
- Neal, Z. P. (2015). Making big communities small: Using network science to understand the behavioral and ecological requirements for community social capital. Society for Community Research and Action, June 28, Lowell, MA.
- Neal, Z. P. (2015). Agent-based simulation models of community: An interactive symposium. Society for Community Research and Action, June 25, Lowell, MA.
- Neal, Z. P., & Li, X. (2015). Comparing old and new urban hierarchies using agent-based simulation. *GeoComputation*, May 21, Dallas, TX.
- Neal, Z. P., & Li, X. (2015). Agent-based Simulation of the formation dynamics of World City network. Association of American Geographers, April 21, Chicago, IL.
- Neal, Z. (2015). Comparing real and possible interlocking world city networks. Association of American Geographers, April 21, Chicago, IL.

- Neal, J. W., Neal, Z. P., & Kornbluh, M. (2015). The acquisition, evaluation, and use of research evidence by public school administrators. American Educational Research Association, April 18, Chicago, IL.
- Collins, C., Neal, Z. P., & Neal, J. W. (2015). Bonding social capital and the promotion of collective efficacy: Neighborhood racial homogeneity as an enhancing mechanism. Urban Affairs Association, April 9, Miami, FL.
- Neal, J. W., Neal, Z. P., & Cappella, E. (2015). What predicts accurate perceptions about classroom relationships?: The role of grade, class size, gender, and social status. Society for Research on Child Development, March 19, Philadelphia, PA.
- Neal, Z. P., & Neal, J. W. (2015). Innovations in qualitative coding methods: Fast, cheap, and reliable. William T. Grant Foundation Research Evidence Meeting, February 3, Washington, DC.
- Neal, J. W., Neal, Z. P., VanDyke, E., & Kornbluh, M. (2014). Expediting the analysis of qualitative data in evaluation: A procedure for the rapid identification of themes from audio recordings (RITA). American Sociological Association, August 19, San Francisco, CA.
- Collins, C., Neal, J.W., & Neal, Z. P. (2014). Transforming Individual Civic Engagement into Community Collective Efficacy: The Role of Bonding Social Capital. American Sociological Association, August 16, San Francisco, CA.
- Neal, Z. P. (2014). The backbone of bipartite projections. International Network for Social Network Analysis (Sunbelt), February 21, Saint Pete Beach, FL.
- Neal, J. W., & Neal, Z. P. (2014). Perceptions of same-sex, opposite-sex, and cross-sex classroom relationships in middle childhood: gender, grade, and transitivity effects. International Network for Social Network Analysis (Sunbelt), February 19, Saint Pete Beach, FL.
- Neal, Z. P., & Neal, J. W. (2014). To "make" or "buy" research evidence: applying transaction cost economics theory to public schools. William T. Grant Foundation Research Evidence Meeting, January 30, Washington, DC.
- Neal, J. W., & Neal, Z. P. (2014). Intermediaries in the transfer of research evidence from "producers" to "consumers": the case of school-based programs. William T. Grant Foundation Research Evidence Meeting, January 29, Washington, DC.
- Neal, Z. P., & Neal, J. W. (2013). The paradox of integration and cohesion: a micro-sociological explanation. American Sociological Association, August 13, New York, NY.
- Neal, Z. P. (2013). There's more than one way to build a world city network: A comparison of five models. American Sociological Association, August 12, New York, NY.
- Neal, J. W., & Neal, Z. P. (2013). Nested or networked? Rethinking ecological systems theory. Society for Community Research and Action, June 20, Miami, FL.
- Neal, Z. P., & Neal, J. W. (2013). The (In)compatibility of diversity and sense of community. Society for Community Research and Action, June 20, Miami, FL.
- Neal, J. W., Neal, Z. P., & Cappella, E. (2013). I know who my friends are, but do you? Comparing predictors of self- and peer-reported relationships." Society for Research in Child Development, April 18, Seattle, WA.
- Neal, Z. P. (2013). Degree distributions of the US air traffic network: multiple scales, multiple actors, multiple seasons. Association of American Geographers, April 10, Los Angeles, CA.
- Neal, Z. P. (2012). The urban metabolism of airline passengers: scaling and sustainability. American Sociological Association, August 17 – 20, Denver, CO.
- Neal, Z. P. (2012). Types of hub cities and their effects on urban creative economies. North Central Sociological Association, April 12 – 14, Pittsburgh, PA.

- Neal, Z. P. (2012). A parametric method for dichotomizing unipartite projections. International Network for Social Network Analysis (Sunbelt), March 13 – 18, Redondo Beach, CA.
- Neal, Z. P. (2012). Intercity linkages in the interlocking world city network: how strong is strong enough? Association of American Geographers, February 24 – 28, New York, NY.
- Neal, Z. P., & Neal, J. W. (2011). The role of public schools in community satisfaction. American Sociological Association, August 20 – 23, Las Vegas, NV.
- Neal, Z. P. (2011). Community: place or pattern? Society for Community Research and Action, Jun 16 – 19, Chicago, IL.
- Neal, Z. P. (2011). The role of transportation networks in urban growth. Summit on Transforming Transportation: Economies and Communities, April 7 – 9, Detroit, MI.
- Neal, Z. P. (2011). Comparing beta centrality and a modified degree centrality. International Network for Social Network Analysis (Sunbelt), February 8 – 13, St. Pete Beach, FL.
- Neal, Z. P. (2010). Employment and business networks among US cities: separating cause from effect. American Sociological Association, August 14 – 17, Atlanta, GA.
- Neal, J. W., Neal, Z. P., Atkins, M. S., Henry, D. H., & Frazier, S. L. (2010). Channels of change: contrasting network mechanisms in the use of interventions. American Psychological Association, August 12 – 15, San Diego, CA.
- Neal, Z. P. (2010). From central places to network bases: a transition in the US urban hierarchy, 1900 – 2000. Association of American Geographers, April 14 – 18, Washington, DC.
- Neal, Z. P. (2010). Common ground: understanding public spaces. Michigan Higher Education Land Policy (MIHELP) Consortium, February 11, East Lansing, MI.
- Neal, Z. P. (2009). The space of what flows? Rethinking connection and connectivity in city networks. American Sociological Association, August 8 – 11, San Francisco, CA.
- Neal, Z. P., & Neal, J. W. (2009). The seeds of collaboration: an examination of graduate student social networks. Midwest Sociological Society, April 2 – 5, Des Moines, IA.
- Neal, Z. P. (2008). The changing nature of status in the urban hierarchy: comparing central places and flows, 1900 – 2000. American Sociological Association, August 1 – 4, Boston, MA.
- Henry, D. H., Fogg, L., Schoeny, M., Neal, Z. P., & Neal, J. W. (2008). The robustness of permutation analysis. American Statistical Association Luncheon, March 18, Chicago, IL.
- Neal, Z. P. (2007). The duality of world cities and firms: networks, hierarchies, and inequality in the global economy. American Sociological Association, August 11 – 14, New York, NY.
- Neal, Z. P. (2007). That special place: exploring and explaining urban economic specialization, 1959 – 2005. Workshop on City, Society, and Place, University of Chicago, April 19, Chicago, IL.
- Neal, Z. P. (2007). The duality of world cities and firms: networks, hierarchies, and inequality in the global economy. Midwest Sociological Society, April 4 – 7, Chicago, IL.
- Neal, Z. P. (2006). Building a Blauurban space. Midwest Sociological Society, March 30 – April 2, Omaha, NE.
- Neal, Z. P. (2005). Culinary deserts, gastronomic oases: a classification of US cities. American Sociological Association, August 13 – 16, Philadelphia, PA.

## **COURSES TAUGHT**

### Undergraduate

Complex Organizations  
Introductory Statistics

### Graduate

Agent-based Modeling  
Globalization

Urban Sociology  
Urban Social Networks

Network Analysis  
Research Methods  
Urban Social Networks  
Urban Sociology

### **STUDENTS SUPERVISED OR CO-SUPERVISED**

In progress Rachel Domagalski, PhD in Mathematics, MSU  
2019 Jennifer Lawlor, PhD in Community Psychology, MSU  
2019 Camren Wilson, MA in Community Psychology, MSU  
2018 Sophie Simon, MA in Urban Management & Development, Erasmus University  
2017 Jennifer Lawlor, MA in Community Psychology, MSU  
2017 Cortney Vandegriff, MA in Community Psychology, MSU

### **HONORS & AWARDS**

2019 *Urban Studies* Best Article Award, Honorable Mention for "The urban metabolism of airline passengers: Scaling and sustainability"  
2017 Early Career Award, American Psychological Association Division 27, Society for Community Research and Action (SCRA)  
2016 Freeman Early Career Award, International Network for Social Network Analysis (INSNA)  
2015 Distinguished Graduate Alumnus, University of Illinois at Chicago  
2010 Outstanding Dissertation Award, University of Illinois at Chicago  
2009 David P. Street Dissertation Prize for Engaged Sociology  
2009 2<sup>nd</sup> Place, Midwest Sociological Society Paper Competition for "From Central Places to Network Bases: The Emergence of a New Urban Hierarchy, 1900 – 2000."  
2006 2<sup>nd</sup> Place, Midwest Sociological Society Paper Competition for "Building a Blauurban Space"  
2006 David P. Street Research Award for "Culinary Deserts, Gastronomic Oases: A Classification of U.S. Cities"

### **PROFESSIONAL SERVICE**

2017 Organizer, 2<sup>nd</sup> International Symposium on Urban Networks (Perth)  
2019 Program Committee, 8<sup>th</sup> International Conference on Complex Networks and their applications (Lisbon)  
2019 Organizer, Sunbelt Signed Ties Miniconference (Montreal)  
2019 Program Committee, 11<sup>th</sup> International Congress on Social Informatics (Doha)  
2019 Organizer, AAG Cities & Networks Miniconference  
2019 Ecological-Community Psychology Brownbag Committee  
2017 – 2020 Psychology Department Advisory Committee  
2017 – 2020 Psychology Department Undergraduate Curriculum Committee  
2017 Organizer, 1<sup>st</sup> International Symposium on Urban Networks (Ghent)  
2015 – 2018 SCRA Council of Educational Programs

2015 – 2016 Ecological-Community Psychology Search Committee  
2014 – 2015 Ecological-Community Psychology Admissions Committee  
2013 – 2014 Organizer, Global Urban Studies Program Workshop Series  
2012 Jane Addams Article Award Committee, Community & Urban Sociology Section  
2011 University Committee on Faculty Affairs, Michigan State University  
2010 – 2011 Organizer, Global Urban Studies Program Workshop Series

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