

Curriculum Vitae

David N. Karp

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Education

PhD Candidate (expected Aug. 2022), Dept. of Geography, Univ. at Buffalo, SUNY, Buffalo, NY

Dissertation: *Shrinking Cities: a geographic analysis of population change and reinvestment in the US.*

Committee: Sharmistha Bagchi-Sen (chair), Peter Rogerson, Jared Alstadt

M.U.S.A., Master of Urban Spatial Analytics, Univ. of Pennsylvania, 2013; Concentration: Urban Economics

Capstone: *Modeling Spatial Income Inequality in Philadelphia, Developing Metrics for Measuring Spatial Segregation.*

Advisor: Dana Tomlin

B.A. (*cum laude*), Urban Studies, Univ. of Pennsylvania, 2010

Thesis: *Developing Green Building Initiatives, Restructured Economies and Redesigned Environments.*

Advisor: Domenic Vitiello

Awards & Honors

Presidential Fellowship Award, 2018-2022 (University at Buffalo, State University of New York)

Professional Experience

Graduate Teaching Assistant, 2018 – Present; Dept. of Geography, Univ. at Buffalo, SUNY, Buffalo, NY

Research Assistant (Dr. Adam Wilson), 2019; Dept. of Geography, Univ. at Buffalo, SUNY, Buffalo, NY

Research Analyst, 2015 – 2019; Dept. of Emerg. Med, Sidney Kimmel Med. College, Thomas Jefferson Univ., Phila., PA

Lead Project Manager, 2013 – 2018; Biostatistics & Epidemiology, School of Medicine, Univ. of Penn, Phila., PA

Senior Research Coordinator, 2013 – 2015; Real Estate, The Wharton School, Univ. of Penn, Phila., PA

MUSA Grad. Program Coordinator, 2013 – 2015; Penn Inst. Urban Research, PennDesign, Univ. of Penn, Phila. PA

Data Analyst, 2013 – 2014; Fair Share Housing Center, Cherry Hill, NJ

Data Intern, 2012 – 2013; PolicyMap, The Reinvestment Fund, Phila., PA

Program Manager, 2010 – 2012; Oglala Lakota Cultural & Economic Revitalization Initiative (OLCERI), Pine Ridge, SD

Research Assistant, 2009 – 2010; Cartographic Modeling Lab, Univ. of Pennsylvania, Phila., PA

Teaching Experience

Instructor, 2019-2022; Dept. of Geography, Univ. at Buffalo, State Univ. of New York, Buffalo, NY

GEO 105: Earth, Environment, and Climate Lab

Teaching Assistant, Fall 2016; City & Regional Planning, PennDesign, Univ. of Penn, Phila., PA

CPLN Summer Bootcamp: Geographic Information Systems (GIS) & Spatial Analysis (w/ Ken Steif)

Teaching Assistant, Spring 2014/2015; Real Estate, The Wharton School, Univ. of Penn, Phila., PA

REAL 215: Urban Real Estate (w/ Susan Wachter); REAL 236: International Housing Markets (w/ Susan Wachter)

Teaching Assistant, Fall 2012; City & Regional Planning, PennDesign, Univ. of Penn, Phila., PA

CPLN 503: Modeling Geographic Objects – Intro to Geographic Information Systems (GIS) (w/ Katie Nelson)

Peer-Reviewed Publications

Karp, DN, Bagchi-Sen, S, Rogerson, P. (2022). Not all shrinking places are similar: The variegated nature of population decline in the United States. *Applied Geography*, 138, 102581.

Coupet, E, Werner, RM, Polsky, D, Karp, D, & Delgado, MK. (2020). Impact of the young adult dependent coverage expansion on opioid overdoses and deaths: a quasi-experimental study. *Journal of general internal medicine*, 35(6), 1783-1788.

Coupet Jr E., Karp D, Wiebe DJ, Delgado MK. (2018). Shift in US payer responsibility for the acute care of violent injuries after the Affordable Care Act: Implications for prevention. *The American journal of emergency medicine*, 36(12), 2192-2196.

Carr BG, Karp DN, Kilaru AS, Delgado MK, Wiebe DJ. (2018). Quality through coopetition: An empiric approach to measure population outcomes for emergency care sensitive conditions. *Annals of Emergency Medicine*, 72(3), 237-245.

Ioannides K, Baehr A, [DN Karp](#), DJ Wiebe, BG Carr, DN Holena, MK Delgado (2018). Measuring Emergency Care Survival: The Implications of Risk Adjusting for Race and Poverty. *Academic Emergency Medicine*, 25(8), 856-869.

Baehr A, Doty A, [Karp DN](#), Rising KL, Carr BG, Powell RE. (2018). Developing Data to Support Effective Coordination of Nonprofit Hospital Community Benefit Investments. *Journal of Healthcare Management*, 63(4), 271-280.

Medford-Davis LN, Holena DN, [Karp D](#), Kallan MJ, Delgado MK. (2018). Which transfers can we avoid: Multi-state analysis of factors associated with discharge home without procedure after ED to ED transfer for traumatic injury. *The American journal of emergency medicine*, 36(5), 797-803.

Powell RE, Doty AM, Rising KL, [Karp DN](#), Baehr A, Carr BG. (2018). A Content Analysis of Nonprofit Hospital Community Health Needs Assessments and Community Benefit Implementation Strategies in Philadelphia. *Journal of Public Health Management and Practice*, 24(4), 326-334.

Kaufman EJ, [Karp DN](#), MacDonald J, Delgado MK. U.S. (2017). Emergency Department Encounters for Law Enforcement-Associated Injury, 2006-12. *JAMA Surgery*, 152(6), 603-605.

Rising KL, [Karp DN](#), Powell RE, Victor TW, & Carr BG (2017). Geography, Not Health System Affiliations, Determines Patients' Revisits to the Emergency Department. *Health Services Research*, 53(2), 1092-1109.

[Karp DN](#), Wolff CS, Wiebe DJ, Branas CC, Carr BG, & Mullen MT (2016). Reassessing the Stroke Belt. *Stroke*, 47(7), 1939-1942.

Love JS, [Karp D](#), Delgado MK, Margolis G, Wiebe DJ, & Carr BG (2016). National differences in regional emergency department boarding times: are US EDs prepared for a public health emergency? *Disaster medicine and public health preparedness*, 10(04), 576-582.

Kilaru AS, Wiebe DJ, [Karp DN](#), Love J, Kallan MJ, & Carr, BG (2015). Do hospital service areas and hospital referral regions define discrete health care populations? *Medical care*, 53(6), 510-516.

Book Chapters

Jargowsky PA, Wood ZD, Anglum JC, [Karp DN](#). Expanding Educational Opportunity in Urban School Districts. Shared Prosperity in America's Communities, Eds Susan Wachter & Lei Ding. University of Pennsylvania Press. 2016 Feb 26:102.

Abstracts/Conference Presentations

Wilson, A., Duong, M., Jetz, W., Guralnick, R. P., Ranipeta, A., Li, R., & [Karp, D](#). (2019, December). Software workflows and tools for integrating remote sensing and organismal occurrence data streams to assess and monitor biodiversity change. In AGU Fall Meeting Abstracts (Vol. 2019, pp. B22A-07).

D'Alonzo B, Morrison C, Dong B, [Karp D](#), Richmond TS, Tam V, Wiebe D (2017). Shared risk and protective factors for the top 10 fatal injury mechanisms in US counties. Presented at Academic Public Health Association Annual Research Meeting, November 2017.

[Karp DN](#) (2017). Geography of Acute Care: developing a population-based unit of analysis for emergency care, Oral presentation given at the International Medical Geography Symposium, Angers, France, July 2017.

Ioannides KL, Baehr A, [Karp DN](#), Wiebe DJ, Carr BG, Holena DN, Delgado MK. 227 Measuring Emergency Care Survival: The Implications of Risk-Adjusting for Race and Poverty. *Annals of Emergency Medicine*. 2017 Oct 1;70(4):S91.

Salhi RA, [Karp D](#), Grossestreuer A, Delgado K, Abella B, Wiebe D, & Carr, BG. (2016). 172 Regionalization of Post Out-of-Hospital Cardiac Arrest Care in Florida. *Annals of Emergency Medicine*, 68(4), S67-S68.

Medford-Davis LN, [Karp D](#), Kallan MJ, & Delgado KM (2016). Factors Associated with Discharge Home After Interhospital Ed to Ed Transfer for Trauma. *Academic Emergency Medicine*, 23, S20-S21.

[Karp DN](#), Baehr A, Delgado MK, Kilaru AS, Wiebe DJ, & Carr BG (2015). 192 Variability in Survival From Emergency Care Sensitive Conditions Across Emergency Care Service Regions in Pennsylvania. *Annals of Emergency Medicine*, 66(4), S69.

[Karp, DN](#), MK Delgado, DJ Wiebe, BG Carr (2015). Developing Healthcare Coalitions to Measure Population Health. Abstract presented at the Agency for Healthcare Research and Quality (AHRQ) Research Conference, Arlington, VA, October 4-6, 2015.

Baehr, A, [DN Karp](#), MK Delgado, DN Holena, DJ Wiebe, BG Carr (2015). The Implications of Risk-Adjusting for Sociodemographic Factors in Assessing Emergency Care Survival in Pennsylvania. Abstract presented at Concordium 2015 (AcademyHealth), Wash. DC, Sept 21-22, 2015.

Kilaru AS, Wiebe DJ, Kallan MJ, [Karp D](#), Love J, & Carr BG (2014). Can Hospital Service Areas Be Used to Model the Geography of Emergency Department Utilization? *Academic Emergency Medicine*, 21, S146-S147. Academy Health Annual Research Mtg, San Diego, CA, July 2014.

Kilaru AS, Carr BG, [Karp D](#), Love J, & Wiebe DJ (2014). A Novel Population Approach to Identifying Geographic Coalitions of Hospitals that Care for Unplanned Critical Illness. *Academic Em Med*, 21, S106-S107. (Academy Health Annual Rsrch Mtg, San Diego, CA, July 2014.

Love JS, Karp D, Kilaru AS, Margolis G, Wiebe D, & Carr BG (2014). Boarding Hotspots: Regional Variation In Ed Boarding Times Across The Us. Academic Emergency Medicine, 21, S138. (Abstract presented at Academy Health Annual Research Meeting, San Diego, CA, July 2014.)

Karp DN (2013). "Modeling Spatial Income Inequality." Abstract presented at ESRI International User Conference, San Diego, CA, July 2013.

McCormick, S, DN Karp (2009). "Social Context & Heat Risk in Philadelphia: Mapping Block Captain Action Re: Heatwave Preparedness." Abstract presented at Capturing Context Conference: Bridging Spatial and Network Analyses, Columbia University, NYC, NY, June 2009.

Other Research

Hogan DM, Shapiro CD, Karp DN, Wachter SM (2014). Urban ecosystem services and decision making for a green Philadelphia. No. 2014-1155. US Geological Survey.

Karp DN (2013). Modeling Spatial Income Inequality in Philadelphia, Developing Metrics for Measuring Spatial Segregation. Capstone Research Project, Master of Urban Spatial Analytics Program, School of Design, University of Pennsylvania.

Karp, DN (2010). Developing Green Building Initiatives, Restructured Economies and Redesigned Environments. Undergraduate Senior Thesis, Urban Studies Department, College of Arts and Sciences, University of Pennsylvania.

South Philadelphia Air Toxics Community Engagement Project (2013). Research Assistant to Michelle Kondo, PhD, University of Pennsylvania.

Mapping Block Captain Action and Heatwave Preparedness in Philadelphia (2009). Research Assistant to Sabrina McCormick, PhD, University of Pennsylvania.

Service Activities

PhD Student Faculty Department Rep; University at Buffalo, SUNY

Graduate Student Employee Union (GSEU) Department Mobilizer; University at Buffalo, SUNY

Technical Skills

Geospatial: ESRI ArcGIS, ArcPy
Scripting (Python), QGIS, GeoDa, R

Statistical: R, Stata

Database: SQL, MS Access

Design: Adobe Creative Suite

Programming: Python, Java

Web-Development: GoogleMaps API,
ArcGIS API for Flex, Javascript

Other: Linux/Bash, Git/GitHub

References

Professional and academic references available upon request.