

# Kirsten Schwarz

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## APPOINTMENTS

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2020-present	Associate Professor, Department of Urban Planning and Department of Environmental Health Sciences, University of California, Los Angeles
2017-2019	Director, Ecological Stewardship Institute, Northern Kentucky University, Highland Heights, KY
2017-2019	Associate Professor, Department of Biological Sciences, Northern Kentucky University, Highland Heights, KY
2018-2019	<a href="#">AAAS Leshner Leadership Institute for Public Engagement with Science Fellow</a>
2012-2017	Assistant Professor, Department of Biological Sciences, Northern Kentucky University, Highland Heights, KY
2010-2012	Postdoctoral Research Associate, Department of Plant Sciences, University of California, Davis
2009-2010	American Society of Agronomy, Crop Science Society of America and Soil Science Society of America (ASA-CSSA-SSSA) Core Constituent Scientist Team member
2006-2010	Associate Research Specialist and PhD candidate, Cary Institute of Ecosystem Studies, Millbrook, NY
2006-2008	Baltimore Ecosystem Study Bulletin Editorial Board
2004-2009	Baltimore Ecosystem Study LTER Graduate Student Representative
2003-2006	Teaching Assistant, Department of Life Sciences, Rutgers University, New Brunswick, NJ
2001-2003	Research Assistant, Cary Institute of Ecosystem Studies, Millbrook, NY
2000-2001	Project Assistant, Cary Institute of Ecosystem Studies, Millbrook, NY

## EDUCATION

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2010	Ph.D., Ecology, Rutgers University, New Brunswick, New Jersey Dissertation Title: The Spatial Distribution of Lead in Urban Residential Soil and Correlations with Urban Land Cover of Baltimore, Maryland.
2000	B.A., Human Ecology, College of the Atlantic, Bar Harbor, Maine

## REFEREED JOURNAL ARTICLES

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### [Google Scholar Profile](#)

- Schwarz, K.**, A. Berland, and D.L. Herrmann. 2018. Green, but not just: Rethinking environmental justice outcomes in shrinking cities. *Sustainable Cities and Society* 41:816-821.
- Ossola, A., L.A. Schifman, D.L. Herrmann, A.S. Garmestani, **K. Schwarz**, and M.E. Hopton.

2018. The provision of urban ecosystem services throughout the private-social-public domain: a conceptual framework. *Cities and the Environment* 11(1): Article 5.
- Herrmann, D.L., W-C Chuang, **K. Schwarz**, T.M. Bowles, A.S. Garmestani, W.D. Shuster, T. Eason, M.E. Hopton, C.R. Allen. 2018. Agroecology for the shrinking city. *Sustainability* 10(3):675.
- Cutts, B.B., J.K. London, S. Meiners, **K. Schwarz**, and M.L. Cadenasso. 2017. Moving dirt: Soil, lead and the unstable politics of urban gardening. *Local Environment* 22(8):998-1018.
- London, J.K., **K. Schwarz**, M.L. Cadenasso, B.B. Cutts, C. Mason, J. Lim, K. Valenzuela-Garcia and H. Smith. 2017. Weaving community-university research and action partnerships for environmental justice. *Action Research* 16(2):173-189.
- Schwarz, K.**, R.V. Pouyat, and I. Yesilonis. 2016. Legacies of lead in charm city's soil: Lessons from the Baltimore Ecosystem Study. *International Journal of Environmental Research and Public Health* 13(2):209.
- Herrmann, D.L., **K. Schwarz**, W.D. Shuster, A. Berland, B.C. Chaffin, A.S. Garmestani, and M.E. Hopton. 2016. Ecology for the shrinking city. *BioScience* 66(11):965-973.
- Schwarz, K.**, B.B. Cutts, J.K. London, and M.L. Cadenasso. 2016. Growing gardens in shrinking cities: A solution to the soil lead problem? *Sustainability* 8(2):141.
- Cutts, B.B., D. Fang, K. Hornik, J.K. London, **K. Schwarz** and M.L. Cadenasso. 2016. Media frames and shifting places of environmental (in)justice: a qualitative historical geographic information system method. *Environmental Justice* 9(1):23-28.
- Berland, A., **K. Schwarz**, D. L. Herrmann, M.E. Hopton. 2015. How environmental justice patterns are shaped by place: terrain and tree canopy in Cincinnati, Ohio, USA. *Cities and the Environment* 8(1):Article 1.
- Schwarz, K.**, M. Fragkias, C.G. Boone, W. Zhou, M. McHale, J.M. Grove, J. O'Neil-Dunne, J.P. McFadden, G.L. Buckley, D. Childers, L. Ogden, S. Pincetl, D. Pataki, A. Whitmer, and M.L. Cadenasso. 2015. Trees grow on money: urban tree canopy cover and environmental justice. *PLoS ONE* 10(4).
- Hopfensperger, K., **K. Schwarz**, and E.R. Kirtman. 2014. Effects of seasonal variation and land cover on riparian denitrification along a mid-sized river. *Journal of Freshwater Ecology* 29(4): 457-473.
- Zhou, W., M.L. Cadenasso, **K. Schwarz**, and S.T.A. Pickett. 2014. Quantifying spatial heterogeneity in urban landscapes: integrating visual interpretation and object-based classification. *Remote Sensing* 6(4):3369-3386.
- Schwarz, K.**, K.C. Weathers, S.T.A. Pickett, R.G. Lathrop, R.V. Pouyat, and M.L. Cadenasso. 2013. A comparison of three empirically based, spatially explicit predictive models of residential soil Pb concentrations in Baltimore, Maryland USA: understanding the variability within cities. *Environmental Geochemistry and Health* 35(4):495-510.
- Schwarz, K.**, S.T.A. Pickett, R.G. Lathrop, K.C. Weathers, R.V. Pouyat, and M.L. Cadenasso. 2012. The effects of the urban built environment on the spatial distribution of lead in residential soils. *Environmental Pollution* 163:32-39.
- Osmond, D.L., N.M. Nadkarni, C.T. Driscoll, E. Andrews, A.J. Gold, S.R. Broussard Allred, A.R. Berkowitz, M.W. Klemens, T.L. Loecke, M.A. McGarry, **K. Schwarz**, M.L. Washington and P.M. Groffman. 2010. The role of interface organizations in science communication and understanding. *Frontiers in Ecology and the Environment* 8(6):306-313.
- Boone, C.G., M.L. Cadenasso, J.M. Grove, **K. Schwarz**, and G.L. Buckley. 2010. Landscape, vegetation characteristics, and group identity in an urban and suburban watershed: why the 60s matter. *Urban Ecosystems* 13(3):255-271.
- Zhou, W., **K. Schwarz**, and M.L. Cadenasso. 2010. Mapping urban landscape heterogeneity: agreement between visual interpretation and digital classification approaches.

- Landscape Ecology 25(1):53-67.
- Cadenasso, M.L., S.T.A. Pickett, and **K. Schwarz**. 2007. Spatial heterogeneity in urban ecosystems: reconceptualizing land cover and a framework for classification. *Frontiers in Ecology and the Environment* 5(2):80-88.
- Grove, J.M., M.L. Cadenasso, W.R. Burch, Jr., S.T.A. Pickett, **K.Schwarz**, J. O'Neil-Dunne, M. Wilson, A. Troy, and C.Boone. 2006. Data and methods comparing social structure and vegetation structure of urban neighborhoods in Baltimore, Maryland. *Society and Natural Resources* 19:117-136.
- Simkin, S.M., D.N. Lewis, K.C. Weathers, G.M. Lovett, and **K. Schwarz**. 2004. Determination of sulfate, nitrate, and chloride in throughfall using ion-exchange resins. *Water, Air and Soil Pollution* 153:343-354.

## BOOK CHAPTERS

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- Pouyat, R., S. Day, S. Brown, R. Shaw, I. Yesilonis, K. Szlavecz, T. Trammell, **K. Schwarz**. Forthcoming. Urban Soils (Chapter 7). In USDA General Technical Report.
- Schwarz, K.** 2016. Modeling to predict high Pb areas (Chapter 11). In: E. H. Snyder, K. Mclvor, and S. Brown (editors) *Sowing Seeds in the City: Human Dimensions*, Springer. ISBN: 978-94-017-7454-3, p.135-145.
- Schwarz, K.**, D.L. Herrmann, M. McHale. 2014. Abiotic drivers of ecological structure and function in urban systems (Chapter 4). In: R.A. McCleery, C. Moorman, and M.N. Peterson (editors) *Urban Wildlife Science: Theory and Practice*, Springer. ISBN: 978-1-4899-7499-0, p.55-74.
- Pouyat, R.V., K Szlavecz, I.D. Yesilonis, P.M. Groffman, **K. Schwarz**. 2010. Chemical, physical, and biological characteristics of urban soils (Chapter 7). In: J. Aitkenhead-Peterson & A. Volder (editors), *Urban Ecosystem Ecology (Agronomy Monograph 55)*. American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, Madison, WI.

## REFEREED JOURNAL LETTERS

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- Hettinger, A., B.G. Merkle, **K. Schwarz**, S. Bayer, E. Whalen, J. Purrenhage. 2019. Human dimensions: Communication and engagement, where ecology and human dimensions meet. *Bulletin of the Ecological Society of America*.
- Schwarz, K.**, M.L. Cadenasso, J.K. London, and B.B. Cutts. 2019. Fertile ground for collaboration: Investing in community-university partnerships with soil money. *Bulletin of the Ecological Society of America*. 100 (1).
- Schwarz, K.**, D.L. Herrmann. 2016. The subtle, yet radical, shift to ecology for cities. *Frontiers in Ecology and the Environment*. 14(6):296-297.
- Cadenasso, M.L., S.T.A. Pickett, and **K. Schwarz**. 2008. Measuring change - Reply. *Frontiers in Ecology and the Environment* 6(2):67-68.

## UNDERGRADUATE JOURNAL PUBLICATIONS

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- Taylor, H., N. Wainscott. 2018. A legacy of lead in Lexington, KY: Digging up dirt on past land use and what it means for urban gardening. *Nysa, The NKU Journal of Student Research*. Volume 1.
- Koenig, D. 2014. An undergraduate's experience in interdisciplinary research. *BIOS* 85(4):224-226.

## OTHER PUBLICATIONS

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**Schwarz, K.** 2015. Book Review: Urban Ecosystems: Ecological Principles for the Built Environment. *Basic and Applied Ecology* 16(3): 279.

Record, S., **K. Schwarz**, E.M. Cook, and G. Losada. 2010. Making Interdisciplinary Research Work. *The LTER Network News* 23(1): 15.

## GRANTS and FELLOWSHIPS

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PI: "Science and Society: Professional Development Series for an Inclusive Classroom." Strategic Investment Award, Northern Kentucky University. January 2019 – January 2020. Award: \$7,052.

Co-PI: "Collaborative Design of a Creative Solar Space on NKU's Campus." Center for Integrative Natural Science and Mathematics (CINSAM) Grant, Northern Kentucky University. January 2019 – January 2020. Award: \$10,812.

PI: "Community Engagement with Green Infrastructure as a Mechanism to Promote Urban Water Resources" Water Research Consortium Challenge Grant, Confluence Water Technology Innovation Cluster. January 2019 – January 2020. Award \$10,000.

PI: "Soil Money: Funding Community-University Partnerships", AAAS Center for Public Engagement with Science and Technology. September 2018 – May 2019. Award \$3,000.

PI: "Strategic Depaving in Newport's Urban Core for Community and Environment." Water Research Consortium Challenge Grant, Confluence Water Technology Innovation Cluster. January 2018 – January 2019. Award \$15,000.

PI: "NKU's Ecological Stewardship Institute: A healthy environment for all." Signature and Emerging Research Areas Competition, Northern Kentucky University. August 2017 – August 2020. Award \$40,000.

Co-PI: "Managing for multiple ecosystem services in working landscapes of Sacramento: Urban agriculture and soil lead contamination." Agriculture and Natural Resources, University of California. October 2011 – September 2016. Award: \$600,000.

PI: "MRI: Acquisition of field-portable x-ray fluorescence technology for undergraduate research and education." National Science Foundation. September 2013 – August 2016. Award: \$106,552.

PI: "NKU Intensive Summer Opportunity for Transdisciplinary Curriculum Development – Developing a Transdisciplinary BA in Environmental Science." Northern Kentucky University. June 2016. Award: \$4,500.

PI: "A transdisciplinary exploration of environment: environmental science and communication students dig deeper to explore soil lead contamination in Newport, KY." Center for Integrative Natural Science and Mathematics (CINSAM) Grant, Northern Kentucky University. January 2015 – January 2016. Award: \$11,400.

PI: "Building STEAM: training the next generation of science communication scholars by

bridging the gap between visual arts and the traditional STEM science". KY NSF EPSCoR Education, Outreach and Communication Awards. December 2014 – December 2015. Award: \$10,000.

PI: "Student-centered transdisciplinary curricula development: building STEAM at NKU." Strategic Investment Award, Northern Kentucky University. December 2014 – October 2015. Award: \$10,765.

PI: "Working Dirt: Community Based Research on Lead, Gardens, and Place." Faculty Summer Fellowship, Northern Kentucky University. May 2015 – September 2015. Award: \$6,000.

Co-PI: "Bridging Environmental Science and the Visual Arts through Transdisciplinary Collaboration." Collaborative Faculty-Student Project Grant, Northern Kentucky University. January 2014 – January 2015. Award: \$4,952.

PI: "Managing for multiple ecosystem services in working landscapes of Sacramento: Urban agriculture and soil lead contamination." Faculty Senate Project Grant, Northern Kentucky University. May 2013 – May 2014. Award: \$6,000.

PI: "Soil lead contamination in the city: Understanding the relationship between food, soil lead, and the social and built environment of Cincinnati." Center for Integrative Natural Science and Mathematics (CINSAM) Grant, Northern Kentucky University. January 2013 – January 2014. Award: \$14,600.

Co-PI: "Dissertation Research: The Spatial Dynamics of Lead Levels in Urban Soil and Correlations with Land Cover." National Science Foundation. July 2008 – June 2010. Award: \$12,000.

## **AWARDS**

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Northern Kentucky University, Spotlight on Scholarship, SOL Award, 2018  
Northern Kentucky University, Excellence in Research Award, 2018  
Northern Kentucky University Professional Development Award, 2012-2019  
Rutgers University Graduate School Travel Award, 2008, 2009  
Rutgers University Graduate School Special Study Award, 2005  
Honorable Mention, NSF Graduate Research Fellowship Program, 2004, 2005

## **PRESENTATIONS** (\*undergraduate student)

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Schwarz, K. 2019. Fertile ground for collaboration: Advancing community-university partnerships through soil funding. Ecological Society of America Annual Meeting. 11-16 August, Louisville, KY.

Garmestani, A., D.L. Herrmann, D. Angeler, K. Schwarz, D. Twidwell, C. R. Allen. 2019. Adaptive management, urban systems, and ecosystem services. Ecological Society of America Annual Meeting. 11-16 August, Louisville, KY.

Schwarz, K. 2018. Community engagement in green infrastructure design as a means to build urban water resilience. American Geophysical Union Fall Meeting. 13 December, Washington, D.C.

\*Jackson, E., \*M. Winkler, and K. Schwarz. 2018. Community engagement in green infrastructure as a means to improve local water quality. Ohio River Conference, 17-19 October, Crestview Hills, KY.

- Schwarz, K. and D.L. Herrmann. 2018. Community engagement with green infrastructure as a mechanism to promote urban resilience. WICI Conference on Modelling Complex Urban Environments, 21-22 June, Waterloo, Ontario.
- Schwarz, K., A. Berland, D.L. Herrmann. 2018. Does volunteer vegetation in shrinking cities create a false narrative of environmental justice? Results from Toledo, OH. American Association of Geographers annual meeting, 10-14 April, New Orleans, LA.
- Herrmann, D.L., K. Schwarz, A. Berland. 2018. Towards a Rust Belt Ecology. American Association of Geographers annual meeting, 10-14 April, New Orleans, LA.
- Cutts, B.B., K. Schwarz, J.K. London, M.L. Cadenasso. 2018. Eating dirt: An environmental justice perspective on the risks and rewards of home garden installation. National Environment and Recreation Research Symposium, 8-10 April, Annapolis, MD.
- Schwarz, K., A. Berland, D.L. Herrmann. 2017. Green, but not just: Rethinking environmental justice outcomes in shrinking cities. Ecological Society of America annual meeting, 6-11 August, Portland, OR.
- Schwarz, K. M.L. Cadenasso, B.B. Cutts, and J.K. London. 2017. From the ground up: how a scalar understanding of soil lead can inform urban gardening. International Symposium on Society and Resource Management, 19-22 June, Umea, Sweden.
- Schwarz, K. M.L. Cadenasso, J.K. London, and B.B. Cutts. 2017. Fertile ground for collaboration: Advancing community-research partnerships through soil money. Association of American Geographers annual meeting, 5-9 April, Boston, MA.
- Schwarz, K., B.B. Cutts, J.K. London, and M.L. Cadenasso. 2016. Growing gardens in shrinking cities: A solution to the soil lead problem? International Symposium on Society and Resource Management, 22-26 June, Houghton, Michigan.
- Schwarz, K., R.V. Pouyat, I. Yesilonis. 2015. Legacies of lead in Charm City's soil: Lessons from the Baltimore Ecosystem Study. Baltimore Ecosystem Study Annual Meeting, 20-21 October, Baltimore, MD.
- \*Keener, E.C., B. \*Knox, K. \*Schultz and K. Schwarz. 2015. Transdisciplinary collaboration of environmental science and journalism brings attention to the story of soil lead in Newport, KY. Kentucky Academy of Sciences 101 Annual Meeting, 13-14 November, Highland Heights, KY.
- \*Wainscott, N. and K. Schwarz. 2015. Can elemental ratios be used to link residential soil pollution to a former secondary lead smelter? Kentucky Academy of Sciences 101 Annual Meeting, 13-14 November, Highland Heights, KY.
- \*Knox, B. and K. Schwarz. 2015. The spatial distribution of lead in residential soils: Results from an ongoing soil survey in Cincinnati, OH. Kentucky Academy of Sciences 101 Annual Meeting, 13-14 November, Highland Heights, KY.
- Herrmann, D.L., W.D. Shuster, A. Garmestani, A. Berland, K. Schwarz, B.C. Chaffin, and M.E. Hopton. 2015. Ecology for the shrinking city. Ecological Society of America annual meeting, 9-14 August, Baltimore, MD.
- \*Keener, E.C., B. \*Knox, K. \*Schultz, S. \*Smith, and K. Schwarz. 2015. Science storytelling: Soil lead, community, place, and the power of transdisciplinary collaboration. Ecological Society of America annual meeting, 9-14 August, Baltimore, MD.
- Schwarz, K., M. Neikirk. 2015. Merging science communication and service learning to advance transdisciplinary undergraduate education. Ecological Society of America annual meeting, 9-14 August, Baltimore, MD.
- Schwarz, K., A. Berland, D.L. Herrmann, and M.E. Hopton. 2015. The role of geographical context in the distribution of urban tree canopy cover: implications for environmental justice and urban sustainability planning. IALE World Congress, 5-10 July, Portland OR.

- Schwarz, K., A. Berland, D.L. Herrmann, and M.E. Hopton. 2015. How environmental justice patterns are shaped by place: Terrain and tree canopy in Cincinnati, Ohio. Association of American Geographers Annual Meeting, 21-25 April, Chicago, IL.
- Schwarz, K., B.B. Cutts, J.K. London, and M.L. Cadenasso. 2014. Working Dirt: Community Based Research on Lead, Gardens, and Place. Ecological Society of America annual meeting, 10-15 August, Sacramento, CA.
- Schwarz, K., I. Yesilonis, and R.V. Pouyat. 2014. Understanding and predicting the spatial pattern of heavy metals in urban soils – lessons from the Baltimore Ecosystem Study. Soil in the City Conference, 29 June - 02 July, Chicago, IL.
- Schwarz, K., M. Cadenasso, J. Baty, B. Cutts, J. London, and S. Meiners. 2013. Comparative geographies of soil lead – Can Baltimore’s soil teach us about gardening in Sacramento, CA? Baltimore Ecosystem Study Annual Meeting, 22-23 October, Baltimore, MD.
- Cutts, B., C.J. McNulty, B. Liggett-Boehm, D. Fang, T. Banzuela, J.K. London, S. Meiners, K. Schwarz, M.L. Cadenasso. 2013. Urban environments and the scalar politics of environmental justice - an examination of collaborative networks in Sacramento, CA. 6th Annual Political Networks Workshop and Conference, 26-29 June, Bloomington, IN.
- Schwarz, K., M.L. Cadenasso. 2013. Understanding potential tradeoffs between soil lead contamination and urban gardening in Sacramento, CA. Association of American Geographers Annual Meeting, 9-12 April, Los Angeles, CA.
- Schwarz, K., M. Fragkias, W. Zhou, M. McHale, J.M. Grove, J. O’Neil-Dunne, C.G. Boone, and M.L. Cadenasso. 2012. Urban tree canopy cover and environmental justice: results from an NCEAS working group on environmental justice in cities. Baltimore Ecosystem Study Annual Meeting, 24-25 October, Baltimore, MD.
- Schwarz, K., M. Fragkias, W. Zhou, M. McHale, J. M. Grove, J. O’Neil-Dunne, C.G. Boone, and M. Cadenasso. 2012. Urban Tree Canopy Cover and Environmental Justice: Linking Science, Practice, and Data through a comparison of Baltimore, Philadelphia, Sacramento, and Washington D.C. Association of American Geographers annual meeting, 24-28 February, New York City, NY.
- Schwarz, K., W. Zhou, and M.L. Cadenasso. 2011. Evaluating distributional equity of tree canopy cover in Sacramento, CA. Ecological Society of America annual meeting, 8-12 August, Austin, TX.
- Schwarz, K., W. Zhou, and M.L. Cadenasso. 2011. The association between tree canopy cover, race, education, and income in Sacramento, CA: a tale of two scales. Association of American Geographers annual meeting, 12-16 April, Seattle, WA.
- Schwarz, K. 2010. Communicating Patterns of Soil Lead Contamination to the Public Health Community: The Role of Spatial Models. BES Annual Meeting, October 27-28. Baltimore, Maryland
- Schwarz, K., S.T.A. Pickett, R.G. Lathrop, K.C. Weathers, R.V. Pouyat and M.L. Cadenasso. 2009. A comparison of three models describing the spatial distribution of lead in urban residential soils of Baltimore, Maryland. BES Annual Meeting. October 21-22. Baltimore, Maryland.
- Schwarz, K., S.T.A. Pickett, R.G. Lathrop, K.C. Weathers, R.V. Pouyat and M.L. Cadenasso. An empirical model of the spatial distribution of lead in urban residential soils of Baltimore, Maryland. LTER All Scientist Meeting. September 14-16. Estes Park, Colorado.
- Zhou, W., K. Schwarz, and M.L. Cadenasso. 2008. Agreement Assessment of Visual Interpretation and Digital Classification for Mapping Urban Landscape Heterogeneity. BES Annual Meeting. October 15-16. Baltimore, MD.
- Yesilonis, I., R. V. Pouyat, K. Schwarz, and K. Szlavecz. 2008. Fate and transport of soil metals at different spatial scales: a synthesis of prior research. BES Annual Meeting. October

- 15-16. Baltimore, Maryland.
- Schwarz, K., S.T.A. Pickett, M.L. Cadenasso, K. Weathers, R.V. Pouyat, and I.D. Yesilonis. 2008. Lead in urban residential soils: first steps toward a predictive model. BES Annual Meeting. October 15-16. Baltimore, Maryland.
- Schwarz, K. S.T.A. Pickett, M.L. Cadenasso, K. Weathers, R. V. Pouyat and I.D. Yesilonis. 2008. The spatial variation of lead in urban residential soil and correlations with specific features of urban land cover. Ecological Society of America, 93rd annual meeting abstracts p. 138. August 3-8. Milwaukee, Wisconsin.
- Schwarz, K., S.T.A. Pickett, M.L. Cadenasso, R.V. Pouyat, and I.D. Yesilonis. 2006. The Spatial Dynamics of Lead Levels in Urban Soil and Correlations with Land Cover in Baltimore, MD. BES Annual Meeting. October 18-19. Baltimore, Maryland.
- Cadenasso, M.L., S.T. A. Pickett, K. Schwarz, W. Zhou, A. Troy, J.M. Grove, and C.G. Boone. 2006. Towards a Theory of Urban Land Cover Classification and a Multidimensional Approach to Spatial Heterogeneity of Cities Integrating Natural Features and Social Artifacts. LTER All Scientist Meeting. September 20-23. Estes Park, Colorado.
- Schwarz, K., M.L. Cadenasso, and S.T.A. Pickett. 2003. Reconceptualizing land cover for urban systems. LTER All Scientist Meeting. September 18-21. Seattle, Washington.
- Schwarz, K., M.L. Cadenasso, and S.T.A. Pickett. 2003. Toward understanding ecological structure and function in urban systems: a new land cover classification. Ecological Society of America, 88<sup>th</sup> annual meeting abstracts p. 302. August 3-8. Savannah, Georgia.
- Cadenasso, M.L., D.S. Saah, T.L. Benning, K. Schwarz, and S.T.A. Pickett. 2003. Structure and function of heterogeneity in a savanna landscape: integrated research and management. Cary Conference X. Institute of Ecosystem Studies. April/May. Millbrook, New York.
- Cadenasso, M.L., S.T.A. Pickett, and K. Schwarz. 2003. What is heterogeneity in urban ecosystems? Cary Conference X. Institute of Ecosystem Studies. April/May. Millbrook, New York.
- Simkin, S.M., K.C. Weathers, G.M. Lovett, S.E. Lindberg, D.N. Lewis, and K. Schwarz. 2002. Scaling-up point measurements of atmospheric deposition to mountainous landscapes: an empirical modeling approach. 87<sup>th</sup> Annual Meeting of the Ecological Society of America. August 4-9. Tucson, AZ.
- Cadenasso, M.L., S.T.A. Pickett, and K. Schwarz. 2002. Classifying land cover in urban areas: integrating natural and human components. BES Annual Meeting. October. Baltimore, MD.
- Pickett, S.T. A., M. Cadenasso, and K. Schwarz. 2002. Structure and Function of Riparian Upland Boundaries. RSBP Annual Meeting. January. Kruger National Park, South Africa.
- Weathers, K.C., G.M. Lovett, S.E. Lindberg, S.M. Simkin, D.N. Lewis, and K. Schwarz. 2001. Atmospheric deposition to complex terrain: Scaling up to the landscape. EOS, Transactions, American Geophysical Union, Volume 82 (No. 20), May 15. p. S140
- Weathers, K.C., G.M. Lovett, S.E. Lindberg, S.M. Simkin, D.N. Lewis, and K. Schwarz. 2001. Atmospheric deposition to complex terrain: Scaling up to the landscape. NADP 2000 Ten Years after the Clean Air Act Amendments: Adirondacks in the Balance. Proceedings of National Atmospheric Deposition Program Meeting, Saratoga Springs, NY. October 2000. p. 114.

## **INVITED SEMINARS/LECTURES**

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- Schwarz, K. 2019. Understanding Environmental Inequities in Shrinking Cities. Ball State



- University Department of Geography Seminar Series. November 01, 2019.
- Schwarz, K. 2019. Urban Ecologies of Health. Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences. April 24, 2019.
- Schwarz, K. 2018. Community Engagement with Green Infrastructure as a Mechanism to Promote Urban Water Resources. Confluence Connects. December 12, 2018.
- Schwarz, K. 2018. Environmental In(Justice) in the City. Eastern Illinois University Department of Biology Seminar Series. November 13, 2018.
- Schwarz, K. 2018. Environmental In(Justice) in the City. University of Dayton Department of Biology Seminar Series. September 27, 2018.
- Schwarz, K. 2018. Engaging the Public on Food and Water Security: Perspectives from the AAAS Leshner Public Engagement Fellows. June 13, 2018.
- Schwarz, K. 2017. Strategic Depaving in Newport's Urban Core for Community and Environment. Confluence Connects. December 13, 2017.
- Schwarz, K. 2017. The Legacy of Lead. Miami Sierra Club. November 06, 2017.
- Schwarz, K. 2017. The Spatial Distribution of Urban Amenities and Disamenities. DAAP, University of Cincinnati. January 12, 2017.
- Schwarz, K. 2016. The Legacy of Lead. Northern Kentucky Sierra Club. January 25, 2016.
- Schwarz, K. 2015. The Green Divide: Urban Tree Canopy and Environmental Justice. Democracy Square Live Seminar Series, Northern Kentucky University, November 17, 2015.
- Schwarz, K. M. Day, and E.C. Keener. 2015. A transdisciplinary exploration of environment: environmental science and journalism students dig deeper to explore soil lead contamination in Newport, KY, CINSAM Seminar Series, Northern Kentucky University, October 8, 2015.
- Schwarz, K. 2015. The incredible edible world of dirt. Cincinnati Museum Center GIRLS program (girls in real life science). September 19, 2015.
- Schwarz, K. 2015. The Legacy of Lead. Six@Six: Faculty Series. Behringer-Crawford Museum, Covington, KY. April 14, 2015.
- Schwarz, K. 2015. Distributed Urban Ecology Course (guest lecturer). North Carolina State University and Hofstra University, March 06, 2015.
- Schwarz, K. 2014. How Art Improves Science. Northern Kentucky University, Fotofocus Public Lecture Series, October 21, 2014.
- Schwarz, K. 2014. The Spatial Distribution of Environmental Goods and Hazards: Tree Canopy and Soil Lead in the Built Environment. Thomas More College, October 19, 2014.
- Schwarz, K. 2013. Distributed Urban Ecology Course (guest lecturer). North Carolina State University and Boston University, September 13, 2013.
- Schwarz, K. 2013. The Spatial Distribution of Environmental Goods and Hazards: Tree Canopy and Soil Lead in the Built Environment. University of Cincinnati, Department of Geology Colloquium Series, September 07, 2013.
- Schwarz, K. 2011. The Spatial Distribution of Lead in Urban Residential Soils of Baltimore, Maryland (guest lecturer). University of California, Davis. January 27, 2011.
- Schwarz, K. 2010. The Role of Spatial Models in Public Health Decision Making: The Case of Lead Contamination in Baltimore City's Soil. Baltimore City Health Department, October 26. Baltimore, Maryland.
- Schwarz, K. 2010. Urban Ecosystem Studies (guest lecturer). The New School's Tishman Environment and Design Center. April 13, 2010.
- Schwarz, K. 2010. The Spatial Distribution of Lead in Urban Residential Soils of Baltimore, Maryland. Cary Institute of Ecosystem Studies Spring 2010 Seminar Series. February 18, 2010.
- Schwarz, K. 2010. Urban Ecosystem Studies (guest lecturer). Cary Institute of Ecosystem

Studies Fundamentals of Ecosystem Ecology (FEE) Course. January 13, 2010.  
Pouyat, R.V., K. Schwarz, and I. Yesilonis. 2009. The Spatial Distribution of Lead in Urban Soils: Results from the Baltimore Ecosystem Study. Baltimore City Health Department Seminar Series. April 15, 2009, Baltimore, Maryland.

## **SYMPOSIUM AND WORKSHOP CONTRIBUTIONS**

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Invited Speaker. "Symposium – Three Rivers Urban Soil Symposium" November 21, 2019. Phipps Conservatory, Pittsburgh, PA.

Co-organizer. "Field Trip – A Crosstown Walk along Oak Street" August 15, 2019. Ecological Society of America Annual Meeting, Louisville, KY.

Co-organizer and speaker. "Inspire – Ecosystems for Engagement: Building Institutional Capacity to Support Public Engagement" August 15, 2019. Ecological Society of America Annual Meeting, Louisville, KY.

Co-organizer. "Organizer Oral Session – Ecologists-Community Partnerships in Action: Lessons, Reflections, and Implications" August 13, 2019. Ecological Society of America Annual Meeting, Louisville, KY.

Invited Speaker. "Symposium – Improving Environmental Decision-Making Through Integrated Governance, Public Engagement, and Translational Approaches" August 14, 2019. Ecological Society of America Annual Meeting, Louisville, KY.

Invited Participant. "Toward a Practice Driven and Co-Produced Urban Sustainability Research and Action Network" July 8-9 2019. Aspen Global Change Institute, Ann Arbor, MI.

Invited Speaker. 24th Annual Environmental Health Symposium "Green & Healthy Housing" March 28, 2019. Eastern Kentucky University, Richmond, KY.

Presenter. "Building Engagement Capacity on Campus and in Communities Networking Fair" February 12, 2019. AAAS Annual Meeting, Washington, D.C.

Invited Participant. "Social-ecological Connectivity and Urban Resilience." June 19-20, 2018. University of Waterloo, Waterloo, Ontario.

Invited Speaker. "Symposium – Pb in Urban Soils" October 24, 2017. Managing Global Resources for a Secure Future, Soil Science Society of America Annual Meeting, Tampa, FL.

Panelist. "Democracy in the Era of President Trump" March 1, 2017. Northern Kentucky University, Critical Conversations Public Series, Highland Heights, KY.

Invited Participant. "Gaining Ground – Soil as a Renewable Resource." August 1, 2016. The White House Office of Science and Technology Policy, Washington, DC.

Presenter. "CINSAM Workshop: Edible Soil Profiles." September 16, 2014. Northern Kentucky University, Highland Heights, KY.

Co-Organizer. "CINSAM Workshop: Project Learning Tree." April 17, 2014. Northern Kentucky

University, Highland Heights, KY.

Panelist. "Urban forestry, ecology, and natural resources." April 14, 2011. Association of American Geographers Annual Meeting, Seattle WA.

Co-Organizer. "Ending childhood lead poisoning." April 6, 2011. A panel sponsored by the University of California, Davis Institute for Government Affairs, John Muir Institute of the Environment, Center for Regional Change, and the Environmental Justice Project, Davis, CA.

Participant. "Ecology of environmental justice in metropolitan areas." June 14-18, 2010. National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.

Organizer and Speaker. "First annual Baltimore Ecosystem Study graduate student symposium." October 20, 2009. Baltimore Ecosystem Study Annual Meeting, Baltimore, MD.

Co-Organizer. LTER All Scientist Meeting: "Identifying the benefits and barriers to graduate student cross-site socio-ecological research in urban systems." September 14, 2009, Estes Park, CO.

Co-Organizer and Speaker. LTER Graduate Student Symposium: "Identifying the benefits and barriers to graduate student cross-site socio-ecological research in urban systems." September 13, 2009, Estes Park, CO.

Invited Participant. Cary Conference XIII: "Effective communication of science in environmental controversies." May 5-9, 2009. Cary Institute of Ecosystem Studies, Millbrook, NY.

Participant. "Can plant-based ethanol curb our fossil fuel addiction: a workshop exploring the sustainability of biofuels." November 14-15, 2007. Cary Institute of Ecosystem Studies, Millbrook, NY.

Invited Participant. Cary Conference XII: "Urban ecological heterogeneity and its application to resilient urban design." May 1-3, 2007. Institute of Ecosystem Studies, Millbrook, NY.

Participant. "Ecology and environmental justice research across the LTER network: long-term multi-scale understandings of past, present, and future." February 14-15, 2007. Global Institute of Sustainability, Arizona State University, Phoenix, AZ.

Invited Participant. Cary Conference XI: "Infectious disease ecology: effects of disease on ecosystems and of ecosystems on disease." May 3-5, 2005. Institute of Ecosystem Studies, Millbrook, NY.

## **COURSES TAUGHT** (\*developed course)

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\*Ecology of the City (Lecture and Lab)

\*Science Communication: The Art and Practice of Science Storytelling

\*Environmental Science Seminar: Empathy and the Environment

Introduction to Environmental Science and Issues

Orientation to Environmental Careers

Advanced Writing in Biology/Environmental Science

Introduction to Biology I: Laboratory  
Understanding the Living World Laboratory

## **UNDERGRADUATE RESEARCH STUDENTS**

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Naomi Archibong, Jason Bellis, Molly Brubaker, Kyle Conley, Jaeydah Edwards, Brittany Holton, Enrica Jackson, Emily Jones, Emily Keener, Kathryn Keefe, Taylor Kopeschka, David Koenig, Beth Knox, Brennen Kuhn, Sarah Martin, Adam O'Brien, Valerie Rice, Alexis Sharp, Jackson Shown, Sydney Smith, Elaina Staggs, Haylee Taylor, Victor Vanover, Nicholas Wainscott, Matthew Winkler, Jacob Webster, Brittany White, Kelsey Zalack

## **PROFESSIONAL SERVICE**

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Chair, Ecological Society of America, Science Communication and Engagement Section, 2019-2020

Chair-elect, Ecological Society of America, Science Communication and Engagement Section, 2018-2019

Review Panelist, National Science Foundation, 2017, 2019

Manuscript Reviewer: Ecological Indicators (2), Environmental Management (2), Journal of Soils and Sediments (2), Landscape and Urban Planning (5), Environmental Science and Technology (1), International Journal of Geographic Information Science (2), Environmental Pollution (2), Progress in Physical Geography (1), Journal of Environmental Quality (1), Applied Geochemistry (2) Urban Forestry & Urban Greening (2) Journal of Urban Ecology (1) Sustainable Cities & Society (1) PLoS ONE (2)

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

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Ecological Society of America, Association of American Geographers

## **COMMUNITY SERVICE and BOARD MEMBERSHIPS**

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Member, Parks Advisory Group, City of Covington Parks and Recreation Department  
Member, Steering Committee, Ride the Cov (Bike Advocacy Group)