

Ray Yeager, MPH, PhD
Cardiovascular Innovations Institute Building, Rm. 116
302 E Muhammad Ali Blvd, Louisville, KY 40202
502-852-9069
Ray.Yeager@Louisville.edu

EDUCATION

- 2008 Bachelor of Science in Geography and Geosciences
University of Louisville, Louisville, Kentucky
- 2010 Master of Public Health, Concentration in Environmental and Occupational Health Sciences
University of Louisville, Louisville, Kentucky
- 2016 Doctorate of Philosophy in Public Health Sciences, Specialization in Environmental Health
University of Louisville, Louisville, Kentucky

ACADEMIC APPOINTMENTS

- 2019-Present Assistant Professor, Department of Environmental and Occupational Health Sciences,
University of Louisville School of Public Health and Information Sciences and The
Christina Lee Brown Envirome Institute, Louisville, Kentucky
- 2018-2019 Research Associate, University of Louisville School of Medicine, Christina Lee Brown
Envirome Institute, Louisville, Kentucky
- 2016-2018 Research Associate, Division of Cardiovascular Medicine, Department of Medicine,
University of Louisville School of Medicine, Louisville, Kentucky
- 2015-2016 Graduate Research Assistant, Division of Cardiovascular Medicine, Department of
Medicine, University of Louisville School of Medicine, Louisville, Kentucky
- 2013-2015 Graduate Research Assistant, Department of Environmental and Occupational Health
Sciences, University of Louisville School of Public Health and Information Sciences,
Louisville, Kentucky
- 2011-2013 Research Data Specialist (Part-Time), Division of Cardiovascular Medicine, Department
of Medicine, University of Louisville School of Medicine

OTHER POSITIONS AND EMPLOYMENT

- 2012-2013 Environmental Health Geographer
Tetra Tech, Inc.
- 2010-2012 Independent Health Geography Consultant

- 2009-2010 Center for Health Equity Intern
 Louisville Metro Department of Public Health and Wellness
- 2007-2008 Mapping Technician (Part-Time)
 The Jefferson County Property Valuation Administrator's Office

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

Professional Memberships

American Heart Association

American Public Health Association

American Association of Geographers

HONORS AND AWARDS

- 2008 Jefferson County Property Valuation Administration Certificate of Service
- 2010 Second Place – ESRI Social Media Challenge
- 2011 Second Place – Kentucky GIS conference, Map Gallery Competition
- 2013 Winner - Research!Louisville, Best Poster in Research & Practice in Public Health
- 2014 Third Place - Student Achievement Poster Award, American Public Health Association Annual Meeting
- 2014 Winner, Research!Louisville, Public Health Doctoral Student Award
- 2016 Top 10 Submitted Abstract, Environmental Section Student Achievement Poster Award Session, American Public Health Association Annual Meeting
- 2017 Second Place – Research!Louisville, Research Associate Award
- 2018 Alumni Spotlight – University of Louisville School of Public Health and Information Sciences
- 2018-2019 University of Louisville Superfund Research Program Trainee

COMMITTEE ASSIGNMENTS AND OTHER SERVICES

- 2016-2019 Senator, University of Louisville Staff Senate
- 2016-2018, Staff Help, Assistance and Relief Committee

- 2018-2019, Services and Facilities committee
- 2018-2019, Representative to the University of Louisville Intellectual Property Committee

2016-2019 Coach, University of Louisville Women's Ultimate Club

2015-2016 Assistant Coach, University of Louisville Ultimate Club

PUBLICATIONS

1. DeJarnett, N., Conklin, D.J., Riggs, D.W., Myer, J.A., O'Toole, T.E., Hamzeh, I., Wagner, S., Chugh, A., Ramos, K., Srivastava, S., Higdon, D., Tollerud, D.J., DeFilippis, A., Becher, C., Wyatt, B., McCracken, J., Abplanalp, W., Rai, S.N., Ciszewski, T., Xia, Z., **Yeager, R.**, Prabhu, S.D., Bhatnagar, A. Acrolein exposure is associated with increased cardiovascular disease risk. *J. Amer. Heart Assoc.* 114.000934, 2014. PMCID: PMC4310380
2. DeJarnett, N., **Yeager, R.**, Conklin, D.J., Lee Jongmin, O'Toole, T.E., McCracken, J., Abplanalp, W., Srivastava, S., Riggs, D.W., Hamzeh, I., Wagner, S., Chugh, A., DeFilippis, A., Ciszewski, T., Wyatt, B., Becher, C., Higdon, D., Ramos, K., Tollerud, D.J., Myers, J.A., Rai, S.N., Shah, J., Zafar, N., Krishnasamy S.S., Prabhu, S.D., Bhatnagar, A. Residential proximity to major roadways is associated with increased levels of AC133⁺ circulating angiogenic cells. *Arterioscl Thromb Vasc Biol* 35: 2468-2477, 2015. PMCID: PMC4862408
3. Shaffer L., Brothers K., Burkhead T., **Yeager R.**, Myers J., Sweeney, B. Factors Associated with Attendance after Referral to a Pediatric Weight Management Program. *J Pediatr.* 172:35-9, 2016. PMCID: PMC26947949
4. Riggs, D.W., **Yeager, R.**, Bhatnagar, A. Defining the Human Envirome: An Omics Approach for Assessing the Environmental Risk of Cardiovascular Disease. *Circ. Res.* 122(9):1259-1275, 2018. PMCID: PMC29700071
5. **Yeager, R.**, Riggs, D.W., DeJarnett, N., Tollerud, D., Wilson, J., Conklin, D., E. O'Toole, T., McCracken, J., Lorkiewicz, P., Xie, Z., Zafar, N., Krishnasamy S., Srivastava, S., Finch, J., Keith, R., DeFilippis, A., Rai, S., Liu, G., Bhatnagar, A. Association between residential greenness and cardiovascular disease risk. *J Am Heart Assoc.* 18;7(24):e009117, 2018. PMCID: PMC30561265

Manuscripts in Preparation

1. **Yeager, R.**, Riggs, D.W., Liu, Wilson, J., DeJarnett, N., Keith, R., Conklin, D., Srivastava, S., O'toole, T., Defilippis, A., Rai, S., Bhatnagar, A. Residential Proximity to Green Vegetation is Negatively Associated with Exposure to Volatile Organic Compounds.
2. **Yeager, R.**, Keith, R., Riggs, D.W., Conklin, D., Hart, J., Walker, K., Srivastava, S., Rai, S., Bhatnagar, A. The Green Heart Study: Objectives and Design.

3. **Yeager, R.**, Riggs, D.W., Rai, S., Liu, G., Wilson, J., Bhatnagar, A. Neighborhood Greenness Associated with Cardiovascular Disease Hospital Admissions.
1. Riggs, D.W., **Yeager, R.**, DeJarnett, N., Keith, R., Conklin, D., Srivastava, S., O'toole, T., Hamzeh, I., Wagner, S., Chugh, A., Defilippis, A., Rai, S., Prabhu, S., Bhatnagar, A. Associations between Ozone and Arterial Stiffness, SEVR, and Central Hemodynamics in the Louisville Healthy Heart Study. Environ Health.
4. Riggs, D.W., Zafar, N., **Yeager, R.**, McCracken, J., Abplanalp, W., Conklin, D., O'Toole, T., Krishnasamy, S., Rai, S., Bhatnagar, A. Endothelial Dysfunction and Inflammation Associated with Particulate Matter.
5. Riggs, D.W., Lorkiewicz, P., Zhengzhi, X., Krivokhizhina, T., Finch, J., Abplanalp, W., O'Toole, T., McCracken, J., Conklin, D., **Yeager, R.**, DeJarnett, N., DeFilippis, A., Zafar, N., Krishnasamy, S., Rai, S., Bhatnagar, A., Srivastava, S. Associations between Environmental Exposure to Volatile Organic Compounds and Circulating Angiogenic Cells. Target Journal: Environ Health Perspect

ABSTRACTS

1. **Yeager, R.** "Using Interpolation for Valuation of Vacant Residential Land", Annual Meeting of the Association of American Geographers, Boston, MA, 2008.
2. **Yeager, R.**, Hanchette, C. "A Geographic Analysis of Bone Cancers in Fluoridated areas", Annual Meeting of the American Public Health Association, Philadelphia, PA, 2009.
3. **Yeager, R.**, Tollerud, D. "A Geographic Analysis of Access to Healthy Foods", Annual Conference of the Kentucky Public Health Association, Louisville, KY, 2010.
4. **Yeager, R.**, Tollerud, D. "A Geographic Analysis of Access to Healthy Foods", Annual Meeting of the Association of American Geographers, Washington, DC, 2010.
5. **Yeager, R.**, DeJarnett, N., Bhatnagar, A. "Assessing Markers of Pollution from Exposure to Vehicle-Based Air Pollution", Kentucky GIS conference", Louisville, KY, 2012.
6. **Yeager, R.**, DeJarnett, N., Conklin, D., Tollerud, D., Abplanalp, W., E. O'Toole, T., Myers, J., Ramos, K., Lee, J., McCracken, J., Srivastava, S., Hamzeh, I., Wager, S., Chugh, A., Defilippis, A., Becher, C., Higdon, D., Wyatt, N., Ciszewski, T., Riggs, D., Bhatnagar, A. "Levels of Early Circulating Angiogenic Cells Associated with Geographic Metrics of Roadway Exposure", Research!Louisville, Louisville, KY, 2013.
7. **Yeager, R.**, DeJarnett, N., Conklin, D., Tollerud, D., Abplanalp, W., E. O'Toole, T., Myers, J., Ramos, K., Lee, J., McCracken, J., Srivastava, S., Hamzeh, I., Wager, S., Chugh, A., Defilippis, A., Becher, C., Higdon, D., Wyatt, N., Ciszewski, T., Riggs, D., Bhatnagar, A. "Levels of Early Circulating Angiogenic Cells Associated with Geographic Metrics of Roadway Exposure", Annual Meeting of Ohio Valley Society of Toxicology, Louisville, KY, 2013.
8. **Yeager, R.**, DeJarnett, N., Conklin, D., Tollerud, D., Abplanalp, W., E. O'Toole, T., Myers, J., Ramos, K., Lee, J., McCracken, J., Srivastava, S., Hamzeh, I., Wager, S., Chugh, A., Defilippis, A.,

- Becher, C., Higdon, D., Wyatt, N., Ciszewski, T., Riggs, D., Bhatnagar, A. "Levels of Early Circulating Angiogenic Cells Associated with Geographic Metrics of Roadway Exposure", Annual Meeting of the American Public Health Association, New Orleans, LA, 2014.
9. **Yeager, R.**, Shaffer L., Brothers K., Burkhead T., Myers J., Sweeney, B. "Geographic Disparities of Pediatric Obesity Clinic Attendance", Research!Louisville, Louisville, KY, 2014.
 10. **Yeager, R.**, DeJarnett, N., Tollerud, D., Conklin, D., E. O'Toole, T., McCracken, J., Xie, Z., Zafar, N., Srivastava, S., Rai, S., Bhatnagar, A. "Levels of Early Circulating Angiogenic Cells Associated with Geographic Metrics of Roadway Exposure", Kentucky GIS Conference, Louisville, KY, 2014.
 11. **Yeager, R.**, Riggs, D.W., Rai, S., Liu, G., Wilson, J., Bhatnagar, A. "Residential Exposure to Vegetation Correlated with Hospital CVD Admission Rates", Research!Louisville, Louisville, KY, 2015.
 12. **Yeager, R.**, Shaffer L., Brothers K., Burkhead T., Myers J., Sweeney, B. "Geographic Disparities of Pediatric Obesity Clinic", Annual Meeting of the American Public Health Association, Chicago, IL, 2015.
 13. **Yeager, R.**, Riggs, D.W., Rai, S., Bhatnagar, A. "Environmental Greenness and CVD Among United States Ecoregions", Research!Louisville, Louisville, KY, 2016.
 14. **Yeager, R.**, Riggs, D.W., Rai, S., Liu, G., Wilson, J., Tollerud, D., Rai, S., Bhatnagar, A., "Vegetation Density Associated with Hospital CVD Admission Rates", Annual Meeting of the American Public Health Association, Denver, CO, 2016.
 15. **Yeager, R.**, Bhatnagar, A. "Planting Healthier Air: The Green Heart Study", Annual Meeting of the American Public Health Association, Denver, CO, 2016.
 16. **Yeager, R.**, Riggs, D.W., Liu, Wilson, J., DeJarnett, N., Keith. R., Conklin, D., Srivastava, S., O'toole, T., Defilippis, A., Rai, S., Bhatnagar, A. "Residential Proximity to Green Vegetation is Negatively Associated with Exposure to Volatile Organic Compounds", Research!Louisville, Louisville, KY, 2017.
 17. **Yeager, R.**, Riggs, D.W., Liu, Wilson, J., DeJarnett, N., Keith. R., Conklin, D., Srivastava, S., O'toole, T., Defilippis, A., Rai, S., Bhatnagar, A. "Residential Proximity to Green Vegetation is Negatively Associated with Exposure to Volatile Organic Compounds", Superfund Research Program Annual Meeting, Philadelphia, PA, 2017.
 18. **Yeager, R.**, Riggs, D.W., Liu, Wilson, J., DeJarnett, N., Keith. R., Conklin, D., Lorkiewicz, P., Xie, Z., Srivastava, S., Keith, R., Bhatnagar, A. "Residential Proximity to Green Vegetation is Negatively Associated with Exposure to Volatile Organic Compounds", Annual Meeting of the Society of Toxicology, San Antonio, TX, 2018.
 19. **Yeager, R.**, Riggs, D.W., DeJarnett, N., Tollerud, D., Wilson, J., E. O'Toole, T., McCracken, J., Lorkiewicz, P., Xie, Z., Zafar, N., Krishnasamy S., Srivastava, S., Finch, J., Keith, R., DeFilippis, A., Rai, S., Liu, G., Conklin, D., Bhatnagar, A. "Association between residential greenness and cardiovascular disease risk", Annual Meeting of the American Public Health Association, San Diego, CA, 2018.

20. **Yeager, R.**, Riggs, D.W., Liu, Wilson, J., DeJarnett, N., Keith, R., Conklin, D., Lorkiewicz, P., Xie, Z., Srivastava, S., Keith, R., Bhatnagar, A. "Association between exposure to volatile organic compounds and streetscape tree canopy", Annual Meeting of the American Association of Geographers, Washington, DC, 2019. *(accepted)*

Other Presentations

- | | |
|-----------|--|
| 2011 | Featured Speaker, Louisville Sustainability Forum
<i>Disparities of Access and Sustainability</i> |
| 2013-2016 | Oral Presentations, Environmental and Occupational Health Seminar Series
(Regular Presenter) |
| 2016 | Green Heart Project Annual Scientific Meeting
<i>The Green Heart Project: Essential Background and Scientific Agenda</i> |
| 2017 | Oral Presentation and Chair, Green Heart Project Annual Scientific Meeting
<i>The Green Heart Project: Essential Background and Scientific Agenda</i> |
| 2018 | Webinar, United States Forest Service Urban Forest Connections Webinar Series
<i>The Green Heart Project: Studying the impact of trees and green space on cardiovascular health</i> |
| 2013-2018 | Oral Presentations, Diabetes and Obesity Center Post-Doctoral Seminar Series
(Regular Presenter) |

TRAINING

- | | |
|--------------|---|
| 2008-present | Laboratory Training <ul style="list-style-type: none"> • <i>HIPAA Privacy, Privacy and Research Fundamentals, Security Fundamentals</i> • <i>CITI Human Subjects Biomedical Training</i> |
| 2009 | Cooper/Clayton Smoking Cessation Facilitator Training |
| 2010 | CASPER Emergency Response Survey Training |
| 2012 | OSHA 40-hour Hazwoper Training and Certification |
| 2012 | Federal Emergency Management Agency, Emergency Management Institute <ul style="list-style-type: none"> • <i>Introduction to Incident Command System (ICS-100)</i> • <i>ICS for Single Resources and Initial Action Incident (ICS-200)</i> • <i>National Incident Management System (NIMS) An Introduction (IS-00700.a)</i> • <i>National Response Framework, An Introduction (IS-00800.b)</i> • <i>Emergency Management Preparedness Fundamentals (IS-00910)</i> • <i>Applications of GIS for Emergency Management (IS-00922)</i> |

2013-present Laboratory Training

- *Radiation Safety Annual Training for Personnel Working in Labs*
- *Levell II animal training*
- *NIH Recombinant DNA*
- *Bloodborne Pathogens*