

## CURRICULUM VITAE

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**DATE PREPARED:** June 12, 2023  
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**PLACE OF BIRTH:** Louisville, Kentucky, USA

### 1. EDUCATION

Completion Date	Degree	Field of Study	Institution (City, State, Country)
2017	ScD	Epidemiology	Harvard T.H. Chan School of Public Health (Boston, MA, USA)
2014	MS	Epidemiology	Harvard T.H. Chan School of Public Health (Boston, MA, USA)
2010	BA	Neuroscience (major) and Spanish (minor)	Middlebury College (Middlebury, VT, USA)

#### *Doctor of Science (ScD) in Epidemiology Dissertation*

**DuPré NC.** Air Pollution in Relation to Mammographic Density, Breast Cancer Survival, and Breast Tissue Gene Expression.  
Department of Epidemiology, Harvard T.H. Chan School of Public Health.  
Mentor: Dr. Rulla Tamimi, ScD

#### *Master of Science (MS) in Epidemiology Thesis*

**DuPré N.** The role of Premenopausal Prolactin level and Mammographic Breast Density on subsequent Breast Cancer Risk.  
Department of Epidemiology, Harvard T.H. Chan School of Public Health.  
Mentor: Dr. Rulla Tamimi, ScD

#### POSTDOCTORAL TRAINING:

Dates	Field of Study	Institution (City, State, Country)	Mentor
07/2017-10/2018	Research Fellow, Cancer Epidemiology	Channing Division of Network Medicine, Department of Medicine, Brigham and Women's Hospital (Boston, MA, USA)	Dr. Rulla Tamimi, ScD

#### FELLOWSHIPS:

<b>Dates</b>	<b>Field of Study</b>	<b>Institution (City, State, Country)</b>	<b>Mentor</b>
07/2017-9/2018	Curriculum Fellow, Online MPH Program	Department of Epidemiology, Harvard T.H. Chan School of Public Health (Boston, MA, USA)	Dr. E. Francis Cook, ScD

## **2. PROFESSIONAL EXPERIENCE AND EMPLOYMENT**

<b>Dates</b>	<b>Rank/Title</b>	<b>Department, Institution (City, State, Country)</b>	<b>Supervisor</b>
2010-2011	Research Assistant	Department of Nutrition, Harvard T.H. Chan School of Public Health (Boston, MA, USA)	Dr. Meir Stampfer, MD, DrPH
2011-2012	Research Assistant II	Department of Epidemiology, Harvard T.H. Chan School of Public Health (Boston, MA, USA)	Dr. Lorelei Mucci, ScD
2013-2014	Student Researcher	Channing Division of Network Medicine, Department of Medicine, Brigham and Women's Hospital (Boston, MA, USA)	Dr. Rulla Tamimi, ScD
2013-2014	Online CSRT Course Support and Designer	Office of Global and Continuing Education, Harvard Medical School (Boston, MA, USA)	Dr. Heather Baer, ScD
2015-2016	Online MPH Course Resource Designer	Department of Epidemiology, Harvard T.H. Chan School of Public Health (Boston, MA, USA)	Dr. E. Francis Cook, ScD
2016	Online CSRT Program practicum designer	Office of Global and Continuing Education, Harvard Medical School (Boston, MA, USA)	Dr. Heather Baer, ScD
11/1/2018 – current	Assistant Professor (tenure-track)	Department of Epidemiology and Population Health, University of Louisville School of Public Health and Information Sciences (Louisville, KY, USA)	Dr. Richard Baumgartner, PhD & Department Chair

## **3. HONORS AND AWARDS**

<b>Date</b>	<b>Type of Award</b>	<b>Organization</b>	<b>Title/Description</b>
2021-2022	Student Champion Awardee	University of Louisville Office of the Executive Vice President and University Provost	Students nominate faculty and staff members who they believe went above and beyond their duties to provide exceptional or critical support to them during the academic year.

2021-2022	Award Nomination	University of Louisville	Nomination for the Graduate School Outstanding Mentor of a Doctoral Student
2019-2020	Award Nomination	University of Louisville Delphi Center for Teaching and Learning	2019-2020 Faculty Favorite nomination
2018-2020	Loan Repayment Awardee	National Institutes of Health (NIH) Loan Repayment Program (LRP)	Awardee for project entitled “ <i>Environmental Exposure to Particulate Matter, Green Space and Breast Cancer Incidence and Survival in the Nurses’ Health Studies</i> ”
2017	Conference Travel Awardee	Breast Cancer and Environmental Research Program (BCERP)	2017 Annual Meeting travel award for my conference abstract (Monrovia, CA, USA)
2017	Certificate	American Association for Cancer Research (AACR)	Completion of the Integrative Molecular Epidemiology (IME) Workshop (Boston, MA, USA).
2014-2017	Predocotrinal Trainee Award	Harvard T.H. Chan School of Public Health	Trainee in the Training Program in Cancer Epidemiology NIH National Cancer Institute (NCI) T32 CA009001 (PI: Meir Stampfer)
2017-2018	Postdoctoral Trainee Award	Harvard T.H. Chan School of Public Health	Trainee in the Training Program in Cancer Epidemiology NIH National Cancer Institute (NCI) T32 CA009001 (PI: Meir Stampfer)
2014-2015	Fellowship	Harvard T.H. Chan School of Public Health	David H. Peipers Fellowship recipient two years in a row
2014	Tuition Scholarship	Department of Epidemiology, Harvard T.H. Chan School of Public Health	
2010	Cum Laude	Middlebury College	
2009	All-Academic Award	New England Small College Athletic Conference (NESCAC)	award for outstanding academic performance for student athletes
2008-2010	Dean’s List	Middlebury College	
2006	Dean’s List	Middlebury College	

#### 4. PROFESSIONAL ASSOCIATIONS

##### Memberships to Professional Societies

Professional Society	Dates
American Association for Cancer Research (AACR)	2017 – 2018
American Society of Preventive Oncology (ASPO)	2019 – 2021
International Society for Environmental Epidemiology (ISEE)	2018 – current
UofL Brown Cancer Center	2019 – current

Program in Quantitative Genomics (Associate member) Harvard T.H. Chan School of Public Health	2017 – 2018
Society for Epidemiologic Research (SER)	2017 – current
UofL P30 Center for Integrative Environmental Health Sciences (CIEHS)	2020 – current
UofL Commonwealth Institute for Kentucky (CIK)	2020 – current

## 5. RESEARCH GRANTS

### Current Grant Funding

- Funding Organization: NIEHS  
Principal Investigator: Dr. Sanjay Srivastava, PhD, FAHA  
Dates: (Submitted 2021)  
Title: Environmental Exposure and Cardiometabolic Disease Superfund Research Project 1 (P42 ES023716)  
Total Costs: \$13,748,501 (Direct Costs: \$8,750,000)  
My Role: Co-Investigator on Project 1  
FTE: 10% effort, 1.2 calendar months  
Description: This proposal is to renew the Superfund Center at the University of Louisville. This Center will support research on the cardiometabolic effects of volatile organic chemicals (VOCs) that are of high relevance to the Superfund Program.
- Funding Organization: University of Louisville Transdisciplinary Collaboration Research Planning Grant (TCRPG) Office of the Executive VP for Research and Innovation (EVPRI)  
Principal Investigator: Natalie DuPre, ScD  
Submission Date: October 15, 2019  
Acceptance Date: December 2, 2019  
Dates: TBD (Duration: 1 year)\*  
Title: Feasibility and pilot study to measure personal exposures to residential radon and other environmental chemicals for women recently diagnosed with breast cancer in Louisville  
Total Amount: \$25,000 (Directs: \$25,000)  
*My Role: Principal Investigator*  
FTE: 20% (20% cost-shared)  
Description: We will enroll women diagnosed with invasive breast cancer at the James Graham Brown Cancer Center and ascertain information on breast cancer risk factors and multiple environmental exposures. This study will provide critical data for a larger study of environmental exposures and breast cancer risk in Kentucky.  
\*Start date was delayed due to COVID-19 pandemic

### Previously Funded Grants

- Funding Organization: Louisville/Jefferson County Metro Government  
Principal Investigator: Seyed Karimi, PhD  
Dates: 10/01/2021-12/31/2021  
Title: Analyzing COVID-19 and Projecting COVID-19 Hospitalizations and Deaths for City of Louisville/Jefferson County, Kentucky  
Total Amount: \$54,859 (\$11,320 direct costs)  
My Role: Co-Investigator  
FTE: 10%

Description: We estimated the number of COVID-19 hospitalizations and deaths that would occur under different scenarios of state restrictions and vaccination programs.

2. Funding Organization: NIH NIEHS P30 ES030283 University of Louisville CIEHS Interdisciplinary Award  
Principal Investigator: Natalie DuPre, ScD (Original PI was Dr. C. Tyler Ellis, MD)  
Dates: Sept. 1, 2020 – March 31, 2022  
Title: Identifying Geographic Clusters and Environmental Correlates of Colorectal Cancer (CRC) in Kentucky  
Total Amount: \$68,828 (\$46,590 direct costs)  
My Role: Principal Investigator (Originally Co-I, transferred to PI on Oct. 15, 2021)  
FTE: 10%  
Description: This research identified colorectal cancer hotspots in Kentucky utilizing the Kentucky Cancer Registry database and assessed whether environmental exposures such as natural vegetation and hazardous air pollutants are associated with colorectal cancer hotspots.
  
3. Funding Organization: Jewish Heritage Fund for Excellence Pilot Grant Program, University of Louisville School of Medicine  
Principal Investigator: Natalie DuPre, ScD  
Dates: May 1, 2019 – March 31, 2022  
Title: Exposure to Greenness & Physical Activity in relation to Mammographic Density and Mammography Screening Practices  
Total Amount: \$50,000 (\$50,000 direct costs)  
My Role: Principal Investigator  
FTE: 20% (20% cost-shared)  
Description: We assessed the influence of natural vegetation (i.e., “greenness”) on breast biology independent of physical activity and body mass index, and other breast cancer risk factors, by studying variation in mammographic density and whether there are racial/ethnic differences. Exposure to natural vegetation promotes breast cancer risk-reduction behaviors (e.g., physical activity) and higher exposure to ‘greenness’ was associated with lower risk of breast cancer but whether natural vegetation can directly influence breast biology is unknown.
  
4. Funding Organization: Harvard Initiative for Learning & Teaching (HILT) Spark Grant  
Co-PIs: Natalie DuPre, ScD & E. Francis Cook, ScD  
Dates: January 2018 – December 2018  
Title: Development of Student-run Podcasts as an Innovative Learning and Communication Tool  
Total Amount: \$15,000 direct costs  
My Role: Co-Principal Investigator  
FTE: 10%  
Description: Along with three other faculty and staff members, we built a podcasting infrastructure at the Harvard T.H. Chan School of Public Health that includes developing an on-campus and online podcasting workshop with online video materials to train students to podcast.

## 6. PUBLICATIONS

Peer-Reviewed Journal Publications (n=26)

1. LK Blair, ET Warner, P James, JE Hart, T VoPham, M Barnard, JD Newton, Murthy DJ, F Laden. RM Tamimi, **NC DuPre**. Exposure to natural vegetation in relation to mammographic density in a Massachusetts-based clinical cohort, *Environmental Epidemiology*: August 2022 - Volume 6 - Issue 4 - p e216 doi: 10.1097/EE9.0000000000000216. PMID: 35975164; PMCID: PMC9374192.
2. **NC DuPre**, S Karimi, C Zhang, L Blair, A Gupta, L Alharbi, M Alluhibi, R Mitra, WP McKinney, B Little. County-level demographic, social, economic, and lifestyle correlates of COVID-19 infection and death trajectories during the first wave of the pandemic in United States counties. *Sci. Total Environ.* 2021 Sep 10;786, 147495. PMCID: PMC8091799. <https://doi.org/10.1016/j.scitotenv.2021.147495>.
3. Karimi S, Salunkhe SS, White KB, Litte B, McKinney WP, Mitra R, Chen Y, Adkins ER, He CX, Hurst D, Popescu M, Swinney D, Johnson DA, Hollenbach R, Moyer S, **DuPre NC**. Prevalence of unmasked and improperly masked behavior in indoor public areas during the COVID-19 pandemic: Analysis of a stratified Random Sample from Louisville, Kentucky. *Plos One*. 2021 Jul 28; 16(7):e0248324. PMID: 34319978. PMCID: [PMC8318281](https://pubmed.ncbi.nlm.nih.gov/34319978/). DOI: [10.1371/journal.pone.0248324](https://doi.org/10.1371/journal.pone.0248324).
4. Karimi S, Majbouri M, **DuPre N**, White K, Little BB, McKinney WP. Weather and COVID-19 Deaths during the Stay-at-Home Order in the United States. *Journal of Occupational and Environmental Medicine*. 2021 Jun 1; 63(6). PMID: 34048380. PMCID: [PMC8168671](https://pubmed.ncbi.nlm.nih.gov/34048380/). DOI: [10.1097/JOM.00000000000002160](https://doi.org/10.1097/JOM.00000000000002160).
5. Karimi SM, Salunkhe SS, White KB, Alzahrani SA, Little B, Chen Y, McKinney WP, Mitra R, Popescu MM, Adkins ER, Barclay JA, Ezekekwa E, He CX, Hurst DM, Kothagadi A, Shakib SH, Swinney DN, Johnson DA, Hollenbach R, Moyer S, **DuPre N**. Facial Mask Use and COVID-19 Protection Measures in Jefferson County, Kentucky: Results from an Observational Survey, November 5–11, 2020. *Univ Louisville J Respir Infect*. 2021; 5 (1): Article 7. DOI: 10.18297/jri/vol5/iss1/7.
6. Murray EJ, Farland LV, Caniglia EC, Dorans KS, **DuPré NC**, Hughes KC, Kim IY, Pernar CH, Tanz LJ, Zack RM. Is this a portrait of John Graunt? An art history mystery. *American Journal of Epidemiology*. 2020 Oct 1; 189(10):1204-1207. PMID: 31576411. PMCID: PMC7670870.
7. Peng C, **DuPre N**, VoPham T, Heng YJ, Baker GM, Rubadue CA, Glass K, Sonawane A, Zeleznik O, Kraft P, Hankinson SE, Eliassen AH, Hart JE, Laden F, Tamimi RM. Low dose environmental radon exposure with breast tumor gene expression. *BMC Cancer*. 2020; 20:695. doi: 10.1186/s12885-020-07184-7. PMCID: PMC7385902.
8. **DuPré NC**, Blair LK, Moyer S, Cook EF, Little B, Howard J. Hepatitis A outbreaks associated with the opioid epidemic in Kentucky counties, 2017-2018. *American Journal of Public Health*. Sept. 1, 2020; 110 (9); p.1332. <https://doi-org.echo.louisville.edu/10.2105/AJPH.2020.305789>. PMID: 32673108. PMCID: PMC7427253.
9. Karimi S, **DuPre N**, McKinney WP, Little B, Patel N, Moyer S. Projecting the COVID-19 Weekly Deaths and Hospitalizations for Jefferson County, Kentucky. *Univ Louisville J Respir Infect*. July 8, 2020; 4 (1). DOI: 10.18297/jri/vol4/iss1/44.
10. **DuPré N**, Heng YJ, Raby BA, Glass K, Hart JE, Chu J, Askew C, Eliassen AH, Hankinson SE, Kraft P, Laden F, Tamimi RM. Involvement of Fine Particulate Matter Exposure with Gene Expression Pathways in Breast Tumor and Adjacent-Normal Breast Tissue. *Environ Res*. 2020;186:109535. doi:10.1016/j.envres.2020.109535. PMID: 32668536. PMCID: [PMC7368092](https://pubmed.ncbi.nlm.nih.gov/32668536/)
11. VoPham T, Bertrand KA, Jones RR, Deziel NC, **DuPre NC**, James P, Liu Y, Vieira VM, Tamimi RM, Hart JE, Ward MH, Laden F. Dioxin exposure and breast cancer risk in a

- prospective cohort study. *Environ Res.* 2020 Apr 13; 186: 109516. PMID: 32305677. PMID: [PMC7363533](#)
12. Peng C, Heng YJ, Lu D, **DuPre NC**, Kensler K, Glass K, Zeleznik OA, Kraft P, Feldman D, Hankinson SE, Rexrode R, Eliassen AH, Tamimi RM. Pre-diagnostic 25-hydroxyvitamin D concentrations in relation to tumor molecular alterations and risk of breast cancer recurrence. *Cancer Epidemiology, Biomarkers & Prevention.* 2020 Apr 1. PMID: 32238406. PMID: [PMC7284927](#)
  13. Vieira V, VoPham T, Bertrand KA, James P, **DuPré NC**, Hart JE, Tamimi RM, Laden F. Contribution of Socioeconomic and Environmental Factors to Geographic Disparities in Breast Cancer Risk in the Nurses' Health Study II. *Environmental Epidemiology (Philadelphia, Pa.)*, 4(1). 2019 Dec 12. <https://doi.org/10.1097/ee9.0000000000000080>. PMID: 33344878. PMID: [PMC7747944](#)
  14. VoPham T, Bertrand KA, **DuPré NC**, James P, Vieira V, Tamimi RM, Laden F, Hart JE. Ultraviolet radiation exposure and breast cancer risk in the Nurses' Health Study II. *Environmental Epidemiology.* 2019 June 17. DOI: 10.1097/EE9.0000000000000057. PMID: 31321375. PMID: [PMC6639017](#).
  15. **DuPre NC**, Hart JE, Holmes MD, Poole EM, James P, Kraft P, Laden F, Tamimi RM. Particulate Matter and Traffic-related Exposures in Relation to Breast Cancer Survival. *Cancer Epidemiology, Biomarkers & Prevention.* 2019 Jan 15. DOI: 10.1158/1055-9965.EPI-18-0803. PMID: 30647065. PMID: [PMC6449193](#).
  16. Heng YJ, Wang J, Ahern TU, Brown SB, Zhang X, Ambrosone CB, Piana de Andrade V, Brufsky AM, Couch FJ, King TA, Modugno F, Vachon CM, **DuPré N**, Garcia-Closas M, Troester MA, Hunter DJ, Eliassen AH, Tamimi RM, Hankinson SE, Beck AH. Molecular mechanisms linking high body mass index to breast cancer etiology in post-menopausal breast tumor and tumor-adjacent tissues. *Breast Cancer Research and Treatment.* 2018 Nov 1. DOI: 10.1007/s10549-018-5034-1. PMID: 30387004. PMID: [PMC6391202](#).
  17. **DuPré N**, Flavin R, Sfanos K, Unger R, To S, Gazeeva E, Fiorentino M, DeMarzo A, Rider J, Mucci LA. Corpora amylacea in prostatectomy tissue and associations with molecular, histological and lifestyle factors. *The Prostate.* 2018 July 15. DOI: 10.1002/pros.23692. PMID: 30009541. PMID: [PMC6501556](#).
  18. Hart JE, Bertrand KA, **DuPré N**, James P, Vieira VM, VoPham T, Mittleman MR, Tamimi RM, Laden F. Exposure to Hazard Air Pollutants and Risk of Incident Breast Cancer in the Nurses' Health Study II. *Environmental Health.* 2018 Mar 27;17(1):28. PMID: [PMC5870204](#).
  19. **DuPré NC**, Hart JE, Bertrand KA, Kraft P, Laden F, Tamimi RM. Residential particulate matter and distance to roadways in relation to mammographic density: results from the Nurses' Health Studies. *Breast Cancer Res.* 2017 Nov 23. DOI: 10.1186/s13058-017-0915-5. PMID: 29169389. PMID: [PMC5701365](#).
  20. VoPham T, **DuPré N**, Tamimi RM, James P, Bertrand KA, Vieira V, Laden F, Hart JE. Environmental radon exposure and breast cancer risk in the Nurses' Health Study II. *Environmental Health.* 2017 Sep 7. DOI: 10.1186/s12940-017-0305-6. PMID: 28882148. PMID: [PMC5590193](#).
  21. Hart JE, Bertrand KA, **DuPré N**, James P, Vieira VM, Tamimi RM, Laden F. Long-Term Particulate Matter Exposures During Adulthood and Risk of Breast Cancer Incidence in the Nurses' Health Study II Prospective Cohort. *CEBP.* 2016 Jun 2. DOI: 10.1158/1055-9965.EPI-16-0246. PMID: 27257091. PMID: [PMC4970922](#).
  22. Graff RE, Pettersson A, Lis RT, **DuPré N**, Jordahl KM, Nuttall E, Rider JR, Fiorentino M, Sesso HD, Kenfield SA, Loda M, Giovannucci EL, Rosner B, Nguyen RL, Sweeney CJ, Mucci LA; on behalf of the Transdisciplinary Prostate Cancer Partnership ToPCaP. The

- TMPRSS2:ERG fusion and response to androgen deprivation therapy for prostate cancer. Prostate. 2015 Mar 1. doi: 10.1002/pros.22973. PMID: PMC4424159.
23. Kenfield SA, Van Blarigan EL, **DuPré N**, Stampfer MJ, Giovannucci EL, Chan JM. Selenium supplementation and prostate cancer mortality. J Natl Cancer Inst. 2014 Dec 12. doi: 10.1093/jnci/dju360. PMID: PMC4296194.
  24. Kenfield SA, **DuPré N**, Richman EL, Stampfer MJ, Chan JM, Giovannucci EL. Mediterranean Diet and Prostate Cancer Risk and Mortality in the Health Professionals Follow-up Study. Eur Urol. 2013 Aug 13. doi: 10.1016/j.eururo.2013.08.009. PMID: PMC4157361.
  25. Gershman B, Shui IM, Stampfer MJ, Platz EA, Gann PH, Sesso HL, **DuPré N**, Giovannucci EL, Mucci LA. Prediagnostic Circulating Sex Hormones Are Not Associated with Mortality for Men with Prostate Cancer. Eur Urol. 2013 Jan 1. doi: 10.1016/j.eururo.2013.01.003. PMID: PMC3664134.
  26. Shui IM, Mucci LA, Kraft P, Tamimi RM, Lindstrom S, Penney KL, Nimptsch K, Hollis BW, **DuPré N**, Platz EA, Stampfer MJ, Giovannucci E. Vitamin D-related genetic variation, plasma vitamin D, and risk of lethal prostate cancer: a prospective nested case-control study. JNCI. 2012 May 2; 104(9):690-699. doi: 10.1093/jnci/djs189. PMID: PMC3341310.

#### Peer-Reviewed Book Chapter (n=1)

1. **DuPré NC**, Hart JE, James P. 2019. “Chapter 9: Spatial analyses for Environmental Exposures and Breast Cancer: Natural Vegetation, Ambient Air Pollution and Outdoor Light at Night as Examples.” Eds. David Berrigan, Nathan Berger. Geospatial Approaches to Energy Balance and Breast Cancer. Springer Nature Switzerland. Pages 189-219.

#### Preprints:

1. N Chen, D Cheng, M Sodipo, ME Barnard, **NC DuPre**, RM Tamimi, ET Warner. Impact of Age, Race, and Family History on COVID-19 Related Changes in Breast Cancer Screening among the Boston Mammography Cohort Study. medRxiv 2022.12.20.22283719; doi: <https://doi.org/10.1101/2022.12.20.22283719>.

#### Technical Reports and Other Publications (not peer-reviewed)

1. Karimi S, Zarei H, McGeeny D, Patel N, Gunaratnam B, Vu G, McKinney WP, Little B, **DuPre N**, Mitra R, Khan SM, Chen Y, Oeth C, Hollenbach R, Moyer S. Projecting COVID-19 Hospitalizations in Jefferson County, KY based upon the uptake of Vaccination in 5-11 Year Olds: Projection Period 4 November 2021 – 31 January 2022. December 7, 2021. <https://louisville.edu/sphis/research/covid-19-projections>
2. **DuPre N**, Karimi S, McKinney WP, Mitra R, Vu G, Shakib S, Little B. A Review of the Article: Guerra and Guerra (2021), “Mask mandate and use efficacy for COVID-19 containment in U.S. States,” published by International Research Journal of Public Health. *September 15, 2021*. <https://louisville.edu/sphis/research/covid-19-projections>
3. Karimi S, Zarei H, McKinney WP, Little B, **DuPre N**, Mitra R, Patel N, Chen Y, Hollenbach R, Moyer S, Schutze M, LaZur R. Projecting COVID-19 Hospitalizations and Deaths under Scenarios of Vaccination in Jefferson County, Kentucky: Projection Period 10 February 2021 – 20 May 2021. March 6, 2021. <https://louisville.edu/sphis/research/covid-19-projections>
4. Karimi S, Chen Y, **DuPre N**, Little B, McKinney WP, Mitra R, Shakib SH, White KB, et al. Results of the Third Observational Surveys of Mask Use in Indoor Public Areas in Jefferson County, KY during January 25-31, 2021. February 8, 2021. <http://louisville.edu/sphis/documents-and-pdfs/Wave3Reportv06ADAFeb22.pdf>
5. Karimi S, Chen Y, **DuPre N**, Little B, McKinney WP, Mitra R, Shakib SH, White KB, et al. Results of the Second Observational Surveys of Mask Use in Indoor Public Areas in Jefferson

County, KY during December 14-20, 2020. December 22, 2020.

<http://louisville.edu/sphis/documents-and-pdfs/ADAResultsofthesecondobservationalsurveysofmasksinindorpublicareasinjeffersoncountykyluringdec2020.pdf>

6. Karimi S, Zarei H, LaZur R, **DuPre N**, McKinney WP, Patel N, Little B, Mitra R, Moyer S, Schutze MH. Projecting COVID-19 Hospitalizations and Deaths for Region 3 of the Kentucky Regional Hospital Preparedness Program (HPP) Coalition (Jefferson County and 14 Surrounding Counties) during the Implementaion of the State’s “Targeted Measures.” <http://louisville.edu/sphis/documents-and-pdfs/Region3ProjectionsNov2020v15ADAFinal.pdf>
7. Results of the Observational Surveys of Mask Use and Protective Measures of Indoor Public Areas in Jefferson County, KY during November 5-11, 2020. November 17, 2020. <http://louisville.edu/sphis/documents-and-pdfs/ObservationalSurveysofMaskUseandProtectiveMeasuresofIndoorPublicAreasWave1.pdf>
8. Karimi S, Zarei H, **DuPre N**, Salunkhe S, Patel N, Mitra R, McKinney WP, Little B. Projecting Covid-19 Deaths and Hospitalizations for Region 4 of the Kentucky Regional Hospital Preparedness Program (HPP) Coalition from August 18 to October 17, 2020. September 2, 2020. <http://louisville.edu/sphis/documents-and-pdfs/Region4ProjectionsAug2020v13ADA.pdf>
  - <http://louisville.edu/sphis/research/covid-19-projections>
9. Karimi S, Zarei H, **DuPre N**, Chen Y, Patel N, Mitra R, McKinney WP, Little B, **Ul Hassan R**, Moyer S. Projecting the Covid-19 Deaths and Hospitalizations for Jefferson County, KY from July 16 to September 15, 2020. July 31, 2020. <https://louisville.edu/sphis/documents-and-pdfs/Projectionsbasedonincreaseinmaskwearingv11adacompliant.pdf>
  - News Press:
    - <https://wfpl.org/researchers-say-mask-usage-key-to-preventing-coronavirus-spike-in-louisville/>
    - <https://louisville.edu/sphis/research/covid-19-projections>
10. Karimi S, **DuPre N**, McKinney P, Little B, Patel N, Moyer S. Projecting the Covid-19 Weekly Hospitalizations and Deaths for Jefferson County, Kentucky. May 13, 2020. [https://louisville.edu/sphis/documents-and-pdfs/copy\\_of\\_JCCOVID19PredictionReport2v15.pdf](https://louisville.edu/sphis/documents-and-pdfs/copy_of_JCCOVID19PredictionReport2v15.pdf)
  - <https://louisville.edu/sphis/research/covid-19-projections>
11. Karimi S, **DuPre N**, McKinney P, Little B, Moyer S. Projecting the Covid-19 Weekly Deaths, Infections, and Hospitalizations for Jefferson County, Kentucky. April 23, 2020. <https://louisville.edu/sphis/documents-and-pdfs/JCCOVID19PredictionWeek1Report5120distribution.pdf>
  - <https://louisville.edu/sphis/research/covid-19-projections>

## 7. PRESENTATIONS

### Peer-Reviewed Conference Abstracts and Presentations (n=36):

1. Tomlinson MM, Wallis AB, **DuPre N**, Harris M, Baumgartner B, Okonofua F. Menstrual Hygiene Management and School Attendance Among Schoolgirls in a Peri-Urban Region of Nigeria: “We Secretly Hide Them.” Society for Epidemiologic Research 2023. 2023 June 13-16. Portland, OR. Poster.
2. Feygin Y, **DuPre N**, Creel L, Wallis A, Baumgartner R, Peiper N. The Role of Child Maltreatment in the Association between Earned Income Tax Policies and Adolescent Suicide Mortality: A Mediation Analysis. Abstract ID: 160855. Society for Epidemiologic Research 2023 Annual Research Meeting, June 15, 2023 in Portland, OR. Poster

3. Udoh K, Newton J, Pugh F, Ruther M, Ellis CT, **DuPre N**. Environmental Exposures of Ambient Arsenic: Examining the Odds of Residing in a Breast or Colorectal Cancer Hotspot in Kentucky. American College of Physicians (ACP) National Abstract Competitions. Clinical Research. 2023 April 27-29. San Diego, CA. Poster.
4. Newton J, Tomlinson M, Pugh F, Baumgartner R, Boone S, Ruther M, Ellis T, **DuPre N**. Identifying and Characterizing Colorectal Cancer and Colorectal Cancer Mortality Hotspots in Kentucky. Research!Louisville 2022. 2022 October 21. Louisville, KY. Poster.
5. Udoh K, Tomlinson M, Newton J, Pugh F, Ruther M, Ellis T, DuPre N. Environmental Exposures of Ambient Arsenic: Examining the Odds of Residing in a Breast or Colorectal Cancer Hotspot in Kentucky. Research!Louisville 2022. 2022 October 21. Louisville, KY. Poster.
6. Wood LA, Guinn B, Yeager R, Gaskins J, Taylor KC, **DuPre NC**. The Association between Environmental Noise and Prevalence of Mental Ill-Health was Modified by Neighborhood Income and Race in Louisville, Kentucky. SER 2022. 2022 June 16; Chicago, IL. Poster.
7. Blair LK, Creel L, Peiper N, Little B, Taylor K, Baumgartner R, Howard J, **DuPre N**. Residence in Urban or Rural Counties in relation to Opioid Overdose Mortality in Kentucky before and during the COVID-19 Pandemic. SER 2022. 2022 June 16; Chicago, IL. Poster.
8. Abraham S, Newton J, Ruther M, **DuPre N**. Association between census-tract level diesel engine emissions and residence in a breast cancer hot-spot in Kentucky. SER 2022. 2022 June 15; Chicago, IL. Poster.
9. Wood, L.A., Gaskins, J., Taylor, K.C., Guinn, B., Yeager, R., **DuPre, N.C.** (2022, January). *Modification of the Relationship between Environmental Noise and Prevalence of Mental Ill-Health by Neighborhood Income and Race in Louisville, Kentucky*. Kentucky Public Health Association. 2022 April 22. Bowling Green, Kentucky. \*\*2<sup>nd</sup> place winner for Outstanding Student Epidemiology Poster.
10. LK Blair, J Howard, NC Peiper, BB Little, KC Taylor, R Baumgartner, L Creel, **NC DuPre**. Residence in Urban or Rural Counties in relation to Opioid Overdose Mortality in Kentucky before and during the COVID-19 Pandemic. Kentucky Public Health Association. 2022 April 22. Bowling Green, Kentucky. \*\*1<sup>st</sup> place winner for Outstanding Student Epidemiology Poster.
11. Wood LA, Guinn B, Yeager R, Gaskins J, Taylor KC, **DuPre NC**. Winter and Spring Noise in Relation to the Prevalence of Mental Ill-Health in Adults: A Census-Tract Level Ecological Study in Jefferson County, Kentucky. Research!Louisville 2021. 2021 October 27. Louisville, KY. Poster.
12. Tomlinson M, Pugh F, Newton J, Tamimi RM, Laden F, Iyer H, Ruther M, Ellis T, **DuPre N**. Environmental Cadmium Exposure and Odds of Residing in a Breast Cancer Hotspot in Kentucky. ISEE 2021. 2021 August 25. Virtual. Poster.
13. Newton J, Pugh F, Tomlinson M, Ruther M, **DuPre N**, Ellis T. Greenness Exposure in Relation to Residing in Areas of High Colorectal Cancer in Kentucky. ISEE 2021. Virtual. Poster.
14. Riggs D, Yeager R, **DuPre NC**, Rai SN, James P, Laden F, Bhatnagar A. Associations between Air Pollution and County Level Cardiovascular Mortality in the United States by Ecoregions. ISEE 2021. 2021 August 25. Virtual. Poster.
15. Chen Y, Cheng D, **DuPre N**, Barnard M, Tamimi RM, Warner ET. Decline in breast cancer screening and diagnostic imaging rates immediately after the COVID-19 pandemic: an interrupted time series analysis. APHA 2021. Poster.
16. Newton J, Pugh F, Tomlinson M, Ruther M, Ellis T, **DuPre NC**. Socioeconomic Patterns and Environmental Greenness in Relation to Census Tract-Level Colorectal Cancer Rates in Kentucky. Society for Epidemiologic Research (SER) Annual Conference. June 2021. Virtual. Poster.

17. **NC DuPre**, S Karimi, Chen Y, R Mitra, WP McKinney, B Little. Reported Symptoms of COVID-19 Cases by Age Groups in Jefferson County, KY. Kentucky Public Health Association (KPHA). April 2021. Virtual. Poster.
18. Newton J, Tomlinson M, Pugh F, Ruther M, **DuPre NC**, Ellis T. Greenness and Colorectal Cancer Case Rates in Kentucky from 2006-2014. University of Louisville Graduate Student Regional Research Conference. March 11-12, 2021. Virtual. Poster.
19. Blair L, Newton J, Hart JE, James P, VoPham T, Barnard M, Laden F, Warner ET, Tamimi RM, **DuPre NC**. Natural vegetation exposure in relation to volumetric mammographic density. 32<sup>nd</sup> Annual Conference of the International Society for Environmental Epidemiology. August 2020. Virtual. Poster.
20. Newton J, Blair L, **DuPre NC**. Socioeconomic Patterns and Environmental Greenness in Relation to County-Level All-cause and Cause-specific Mortality Rates in Kentucky. 32<sup>nd</sup> Annual Conference of the International Society for Environmental Epidemiology. August 2020. Virtual. Poster.
21. Riggs DW, Yeager R, **DuPre NC**, Rai SN, James P, Laden F, Bhatnagar A. Associations between Greenness and Mortality by Ecoregion in the United States. 32<sup>nd</sup> Annual Conference of the International Society for Environmental Epidemiology. August 2020. Virtual. Poster.
22. Blair L, Newton J, **DuPre NC**. Socioeconomic Patterns and Environmental Greenness in Relation to County-Level All-Cause Mortality Rates in Kentucky. Kentucky Public Health Association 2020 Annual Meeting. Covington, KY. Poster.
23. Blair L, Newton J, Severtson K, **DuPré N**. Socioeconomic Patterns and Environmental Disparities in Greenness within Massachusetts. Research!Louisville 2019 Annual Meeting. September 11, 2019; Louisville, KY. Poster.
24. **DuPré N**, Little B, Blair L, Howard J. County-Level Characteristics from the American Community Survey in relation to County-Case Rates of Hepatitis A in Kentucky: An ecologic study. Society for Epidemiologic Research 2019 Annual Meeting. June 2019; Minneapolis, MN. Poster.
25. **DuPré NC**, James P, Hart JE, VoPham T, Peng C, Gazeeva E, Vieira V, Tamimi RM, Laden F. Residential greenness and breast cancer survival after a breast cancer. International Society for Environmental Epidemiology. August 2018; Ottawa, Canada. Poster.
26. VoPham T, Bertrand KA, **DuPré N**, James P, Vieira V, Tamimi RM, Hart JE, Ward MH, Laden F. Dioxin exposure and breast cancer risk in the Nurses' Health Study II. American Association of Geographers; 2018 April 12; Boston, MA. Poster.
27. **DuPré N**, Barnard M, Fournier G, Murthy D, Astone K, Gombos E, Raza S, Tamimi RM, Warner ET. Introducing the Boston Mammography Cohort Study. Dana Farber Harvard Cancer Center Breast and Gynecologic Cancers Symposium; 2018 March 16; Boston, MA. Poster.
28. Peng C, **DuPré N**, VoPham T, Heng J, Hankinson SE, Eliassen HE, Hart JE, Laden F, Tamimi RM. Transcriptomic network analysis reveals molecular mechanisms linking radon exposure to breast cancer etiology in breast tumor and tumor-adjacent tissues. Dana Farber Harvard Cancer Center Breast and Gynecologic Cancers Symposium; 2018 March 16; Boston, MA. Poster.
29. **DuPré NC**, VoPham T, Bertrand KA, James P, Vierira V, Hart JE, Laden F, Tamimi RM. Ultraviolet radiation exposure across the life course in relation to mammographic density: results from the Nurses' Health Studies. Breast Cancer and the Environment Research Program (BCERP) 12<sup>th</sup> Annual Meeting; 2017 November 16-17; Monrovia, CA. Poster.
30. **DuPré NC**, Heng YJ, Raby BA, Glass K, Hart JE, Chu J, Eliassen H, Hankinson SE, Kraft P, Laden F, Tamimi RM. Fine particulate matter exposure and breast tissue gene expression in the Nurses' Health Studies. Society for Epidemiologic Research (SER) Annual Conference; 2017 June 20-23; Seattle, WA. Poster.

31. **DuPré N**, Poole EM, Holmes MD, Hart JE, Beck A, Kraft P, Laden F, Tamimi RM. Particulate matter and traffic-related exposures in relation to breast cancer survival. Abstract 3278. American Association for Cancer Research (AACR); 2017 April 1-5; Washington, D.C. Poster.
32. VoPham T, Bertrand KA, James P, **DuPré N**, Vieira V, Tamimi RM, Laden F, Hart JE. Ultraviolet radiation exposure and breast cancer risk in the Nurses' Health Study II. Association of American Geographers (AAG) Annual Meeting, Geospatial Health Research Symposium; 2017 April 5-9; Boston, MA. Poster.
33. **DuPré N**, Poole EM, Holmes MD, Hart JE, Beck A, Kraft P, Laden F, Tamimi RM. Particulate matter exposures in relation to breast cancer survival. Dana-Farber/Harvard Cancer Center Fourth Annual Celebration of Junior Investigators in Cancer Research; 2016 Nov 14; Boston, MA. Poster.
34. VoPham T, **DuPré NC**, Tamimi RM, James P, Bertrand KA, Vieira V, Laden F, Hart JE. Environmental radon and breast cancer risk in the Nurses' Health Study II. Dana-Farber/Harvard Cancer Center Fourth Annual Celebration of Junior Investigators in Cancer Research; 2016 Nov 14; Boston, MA. Poster.
35. **DuPré N**, Hart J, Bertrand K, Laden F, Tamimi RM. Air pollution at breast cancer diagnosis and survival from breast cancer. Dana Farber Harvard Cancer Center Breast and Gynecologic Cancers Symposium; 2016 Mar 4; Boston, MA. Poster.
36. **DuPré N**, Hart JE, Bertrand KA, Laden F, Tamimi RM. Long-term ambient particulate matter exposure and mammographic density. UCSF CME: 7<sup>th</sup> International Workshop on Breast Densitometry and Cancer Risk Assessment; 2015 June 10-12; San Francisco, CA. Poster.

Invited Oral Presentation(s), Peer-reviewed (n=1):

1. **DuPré NC**, James P, Hart JE, VoPham T, Peng C, Gazeeva E, Vieira V, Tamimi RM, Laden F. Residential greenness and breast cancer survival after a breast cancer. International Society for Environmental Epidemiology. August 2018; Ottawa, Canada. Oral Presentation.

Invited Oral Presentations, Not Peer-Reviewed (n=19):

1. **DuPré NC**. University of Kentucky John P. Wyatt, MD Environment and Health Symposium. Radon and Breast Cancer Subtypes. April 20, 2023. Lexington, KY.
2. **DuPré NC**. UofL Brown Cancer Center Medical Oncology Grand Rounds. The Role of Environmental Risk Factors for Breast Cancer Subtypes & Identification of Breast Cancer Hotspots in Kentucky. October 21, 2022.
3. **DuPré NC**. University of Louisville Center for Integrative Environmental Health Science (CIEHS) P30 Cancer Research Interest Group. May 5, 2022.
4. **DuPré NC**. *Breast and Colorectal Cancer Hot Spots in Kentucky*. University of Louisville School of Public Health and Information Sciences, Student Government Association Council. World Cancer Day Symposium. Feb. 4, 2022.
5. **DuPré NC**. *The Environment and Breast Cancer Hot Spots in Kentucky*. James Graham Brown Cancer Center Seminar Series. Nov. 3, 2021.
6. **DuPré NC**. *COVID-19 in Communities: Louisville, Kentucky, and US counties*. University of Louisville, seminar series for the Freedom in Change undergraduate student organization. Oct. 29, 2021.
7. **DuPré NC**. *Identifying Geographic Clusters and Environmental Correlates of Colorectal Cancer in Kentucky*. University of Louisville, Research!Louisville 2021 oral presentation. Oct. 28, 2021.
8. **DuPré NC**. *Using spatial databases and GIS for epidemiologic studies of environmental risk factors for breast cancer*. University of Louisville, Seminar series for the Department of Geography and Geosciences. Apr. 16, 2021.

9. **DuPré NC.** *The Environment and Breast Cancer Epidemiology.* University of Louisville School of Public Health and Information Sciences, Student Government Association Council. World Cancer Day Symposium. Feb. 4, 2021
10. **DuPré NC.** *Environmental Exposure to Air Pollutants and Radon and Breast Cancer Epidemiology in Kentucky.* University of Louisville, Seminar series for the Center for Integrative Environmental Health Science (CIEHS) Environmental Health Science Seminar Series. Jan. 7, 2021.
11. **DuPré NC.** *Natural Vegetation exposure in relation to Mammographic Density to understand early influences on breast tissue.* University of Louisville Center for Integrative Environmental Health Science (CIEHS) P30 Career Development Program. Nov. 25, 2020.
12. **DuPré NC.** *Geospatial Approaches and Challenges to Breast Cancer Epidemiology: natural vegetation exposure as an example.* University of Louisville James Graham Brown Cancer Center Seminar Series. Oct. 9, 2019.
13. **DuPré NC.** *Ambient Particulate Matter, Natural Vegetation Exposure, and Breast cancer Epidemiology: Results from the the Nurses' Health Studies.* Christina Lee Brown Envirome Institute Seminar Series. University of Louisville School of Medicine. May 30, 2019.
14. **DuPré NC.** *Integrating breast cancer, environmental, and molecular epidemiology: Breast Tissue Gene Expression and Ambient Particulate Matter in the Nurses' Health Studies.* University of Louisville School of Medicine. Department of Pharmacology and Toxicology. Environmental Health Science Seminar Series. March 7, 2019.
15. **DuPré NC.** *Environmental Exposures and Breast Health: Integrating breast cancer, environmental, and molecular epidemiology.* Invited to present my research and teaching endeavours at the University of Louisville School of Public Health and Information Sciences, Department of Epidemiology. May 17, 2018.
16. **DuPré NC.** *Environmental Exposures and Breast Health: Integrating breast cancer, environmental, and molecular epidemiology.* Invited to present my work within the Nurses' Health Studies at the Channing Division of Network Medicine Breakfast Seminar Series. This is a monthly series that is open to a broad audience of researchers and study coordinators to highlight the ongoing and exciting research within the cohorts. May 16, 2018.
17. **DuPré NC.** *Environmental exposures, early proliferative changes, and breast cancer risk.* As part of the collaboration with the Susan G. Komen Grant, I will co-present with colleagues the work that we have conducted on environmental exposures in relation to breast cancer outcomes to a group of breast cancer advocates at the Dana Farber Harvard Cancer Center. May 9, 2018.
18. **DuPré NC.** *Breast Tissue Gene Expression Pathways Underlying Breast Cancer Risk and Prognostic Factors in the Nurses' Health Study and Nurses' Health Study II.* Invited to present on breast tissue gene expression projects for the weekly seminar series for the Program of Genetic Epidemiology and Statistical Genetics (PGSG), Harvard T.H. Chan School of Public Health. April 6, 2018.
19. **DuPré NC.** *Air Pollution and Breast Cancer Epidemiology: Insights from Breast Tissue Gene Expression.* Invited to present at the monthly Channing Division of Network Medicine, Brigham & Women's Hospital Subtyping meeting. April 25, 2017.

## 8. TEACHING ACTIVITIES:

Primary Instructor for courses at University of Louisville (UofL) School of Public Health and Information Sciences (SPHIS):

<b>UofL SPHIS Program</b>	<b>Course Title</b>	<b>Course Number (credits)</b>	<b>Semester &amp; Year</b>	<b>Course Description</b>
MPH	Epidemiologic Methods	PHEP 602 (3 credits)	Spring 2019 Spring 2020 Spring & Summer 2021 Spring 2022 Fall 2022	This is an intermediate course in epidemiological methods with a focus on study designs, epidemiologic measures and concepts, and basic analysis of epidemiological research studies.
MPH	Public Health Learning Experience (Practicum Project)	PHPH 677, 678, 679 (total: 3 credits, 1 credit each)	2019 – 2023	The Public Health Practice Experience (PHPE) is designed to bridge the gap between academia and public health practice by providing field experience at a public health-related worksite. Each MPH student identifies a practice site, develops a learning agreement in consultation with the practice site mentor and faculty mentor, works at the site to apply specific public health foundational and concentration competencies, gains experience within the organization, and prepares written and oral reports describing the applied practice experience.
MPH	Integrative Learning Experience	PHPH 698 (1 credit)	Spring 2020 Spring 2021 Spring 2023	The Integrative Learning Experience (ILE) is designed to identify specific MPH foundational and concentration competencies that address a student's educational and professional goals and requires the student to complete a culminating experience that demonstrates the synthesis of the identified competencies through specific learning experiences.
MS/PhD	Epidemiologic Methods II	PHEP 618 (3 credits 2020-'22; 4 credits 2023)	Spring 2020 Spring 2021 Spring 2022 Spring 2023	This is an intermediate course in epidemiological methods with a focus on epidemiologic measures, causal inference approaches, directed acyclic graphs, study designs, epidemiologic biases, and intermediate methods to control for confounding.
MS/PhD	Data Management and Analysis Lab – II	PHEP 649 (1 credit)	Spring 2020 Spring 2021 Spring 2022	This course apply epidemiologic methods and concepts using epidemiologic datasets and statistical software commonly used by epidemiologists. The course focuses on data management and analysis to generate descriptive statistics, use regression approaches to account for confounding and assess effect modification.

PhD	Independent Studies*	PHEP 778* (1-3 credits)	*Spring & Fall 2020 Summer & Fall 2021 Spring 2023	Doctoral students work with a professor on tailored learning objectives relevant to epidemiology.
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Presented Guest Lectures in the following courses:

Course Number (Instructor)	Institution/Program	Lecture Title	Date
BIOC 675 (Drs. Carrie M. Klinge, PhD and David Samuelson)	UofL School of Medicine Department / Graduate students	Cancer's Public Health Impact	April 18, 2023
PHPH 301 (Anne Wallis, PhD)	UofL/Undergraduate	Global Cancer Rates: Epidemiology of infections and cancer incidence	February 11, 2020
PHEP 701 (Kira Taylor, PhD)	UofL/MS & PhD	Mediation Analysis	Nov. 26, 2018; Nov. 23 & 30, 2020
EPI 529 (E. Francis Cook, ScD)	Harvard T.H. Chan School of Public Health/ MPH	Air Pollution and Breast Cancer Epidemiology	Spring 2018

Course Development:

- 2021 Led the syllabus development for PHEP 311 Environment and Cancer Epidemiology for undergraduate students minoring in Epidemiology
- 2020 Created new lectures, R statistical code, assignments, and exams for epidemiology doctoral student courses: PHEP 618 & PHEP 649
- 2019 Created new lectures, assignments, and exams for MPH epidemiology students: PHEP 602
- 2018 Curriculum Fellow for Analysis of Case-Control and Cohort Studies (EPI 204) at Harvard Chan School during which I developed lecture slides and homework assignments
- 2016-2017 Biostatistics Practica Development for the Clinical Scholars Research Training (CSRT) program, Office of Global and Continuing Education, Harvard Medical School
- 2016 Developed teaching datasets and data dictionaries from public-use databases and designed screencast videos for students to learn to download public-use databases as part of the first launch of the Public Use Databases (EPI 526) course for the online MPH program

- 2015 Developed online course materials, including homework assignments, video questions, and the teaching dataset, for the first launch of Analytic Methods for Epidemiology (EPI 522) to the first cohort of the online MPH program

#### Teaching Assistantships:

As a TA, I answered student questions in class and via email, developed and led office hours and laboratory sessions in which content was taught and reviewed, and graded exams and homework assignments. As part of EPI 522, I also advised a group of four students on their final data analysis project and presentation

- 2017 Epidemiologic Study Designs (EPI 203)
- 2016 Analytic Methods for Epidemiology (EPI 522)  
Methods for Mediation and Interaction (ID 542)
- 2015 Analytic Methods for Epidemiology (EPI 522)
- 2014 Introduction to Clinical Epidemiology (EPI 208)  
Introduction to Epidemiologic Methods I (EPI 201)  
Introduction to Epidemiologic Methods II (EPI 202)

#### ***MENTORING ACTIVITIES***

***Committee Chair of Doctoral Dissertations of 6 PhD students:***

***Committee Member of Doctoral Dissertations of 7 PhD students:***

***MPH Advisor to 6 MPH students:***

***6 Other Mentees:***

#### **SERVICE ACTIVITIES**

- Member, UofL SPHIS Dean Search Committee, 2023
- Executive Member, Commonwealth Institute of Kentucky, University of Louisville, 2022-present
- Member, UofL Graduate Council Committee, 2021-present
  - Member, UofL Graduate Council Graduate Student Professional Development and Welfare Subcommittee, 2021-present
- Member, UofL SPHIS COVID-19 research team, April 2020-December 2021
- Member, UofL SPHIS Diversity Committee, 2019-2022
- Member, UofL SPHIS Faculty Learning Committee, 2018-2020
- Data Analyst, UofL Senior COVID-19 Leadership Team, Summer & Fall 2021
  - Led the UofL vaccination and testing data integration, reporting and tracking of vaccination status to UofL senior leadership.
- Data Consultant, Butchertown Family Community Clinic (Executive Director, Ellen Wells, RN), September 2020
  - Assisted with identifying demographics among uninsured populations in Louisville
- Poster Judge, UofL Research!Louisville annual meeting, 2019
- Newsletter Developer, Nurses' Health Study and Nurses' Health Study II, Spring 2018
  - Assisted with the development of the annual newsletter that is sent out to the thousands of participants in the Nurses' Health Study and Nurses' Health Study II cohorts to highlight recent findings and compelling research

- Reviewer of Scientific Manuscripts:

Year	# of Reviews	Journal Name(s) (most recent Impact Factor)
2016	1	British Journal of Cancer (7.64)
2017	2	Breast Cancer Research (6.466)
2018	2	Breast Cancer Research (6.466); Cancer Causes & Control (2.3)
2019	2	Environmental Health Perspectives (9.03); Cancer Causes & Control (2.3)
2020	2	Breast Cancer Research (6.466); Cancer Epidemiology, Biomarkers & Prevention (4.344)
2021	2	Cancer Epidemiology, Biomarkers & Prevention (4.344); Annals of Epidemiology (3.797)
2022	3	Cancer Causes & Control (2.3); Environmental Health (7.1); Environmental Research (6.5)
2023	1	Journal of Clinical Oncology (44.54)
<b>Total</b>	<b>15</b>	

- Reviewer of Grant(s):

Institution/Program	Grant Review Type	Grant Title	Year
Wayne State University, Environmental Health Sciences Center for Urban Responses to Environmental Stressors (CURES)	NIEHS Pilot Project Program	Effects of air pollution on inflammation and regulation of anxiety in Detroit adolescents	2020
University of Michigan Environmental Health Sciences Core Center on Lifestage Environmental Exposures and Disease	NIEHS Pilot Project Program	Environmental Health Literacy and Silicone Wristband Exposome Assessment in Older Adults	2023

## REPORT OF CREATIVITY

### Podcasts

1. **DuPré N, Makuch M.** A smelly story: Deodorant and Breast Cancer. *Pandemia Podcast*. May 2018. The first episode of the podcast series starts by tackling a frequent question asked of breast cancer epidemiologists, but finds that rumors, exaggerations, and bias were obstructing the real conclusions from epidemiologic data. Listeners are also introduced to PubMed, ecologic fallacy, and case-control studies.
2. **DuPré N, Orav J, Makuch M.** Physician Gender and Patient Mortality: Meanings of Significance. *Pandemia Podcast*. May 2018. This second episode of the podcast series is a conversation with Dr. Orav, biostatistician and co-author of an interesting study examining whether Medicare patients seeing a female physician have better health outcomes than Medicare patients seen by male physicians. Listeners learn about statistical versus clinical significance and the epidemiologic design and analytical methods to account for biases.
3. **DuPré N, Makuch M.** Turf tale: Epidemiologic Studies of Synthetic Turf Exposure & Injuries. *Pandemia Podcast*. Jan 2019. A concerned soccer coach in Washington brought to the headlines her concerns of synthetic turf exposure and cancer in soccer players. This third episode explores the little epidemiologic research on synthetic turf exposure in relation to cancer incidence, and in its sparseness, we explore the features of more detailed research on

concussions as an example of what to strive for regarding exposure measurement and also what to avoid: selection bias and industrial conflicts of interest.