

CURRICULUM VITAE

Hui Hu, PhD

DATE: August 28, 2020

1. PERSONAL INFORMATION

- a. Place of Birth: Shanghai, China
- b. Marital Status: Married

2. CITIZENSHIP: China. P.R. (US Permanent Resident)

3. OFFICE CONTACT INFORMATION:

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URL: <http://www.hui-hu.com/>
GitHub: <http://www.github.com/benhhu>
LinkedIn: <http://www.linkedin.com/in/benhhu>

4. PRESENT POSITION:

Assistant Professor, Department of Epidemiology, College of Medicine and College of Public Health and Health Professions, University of Florida

5. EDUCATION:

2007-2008	BS student in International Economy and Trade at Shanghai Jiaotong University, Shanghai, China (transferred to Fudan University)
2008-2012	BS in Nursing at Fudan University, Shanghai, China
2012-2016	PhD in Epidemiology at University of Florida, Gainesville, FL

6. ACADEMIC POSITIONS:

UNIVERSITY OF FLORIDA, Gainesville, Florida

College of Public Health and Health Professions/College of Medicine

2016-2018	Research Assistant Scientist, Department of Epidemiology
2018-	Assistant Professor, Department of Epidemiology

7. COMMITTEE AND SERVICE:

a. NIH:

2020 Ad Hoc Reviewer, IRAP Study Section

b. American Heart Association:

2020 Ad Hoc Reviewer, Career Development Award Clinical-Population Sciences

c. University of Florida:

UF Clinical and Translational Science Institute

2019-2020 Ad Hoc Reviewer, CTSI Precision Health Initiative Pilot Grant

Department of Epidemiology

2020- Member, Awards Committee

2016- Member, Curriculum Committee

2016-2017 Member, Fundraising Committee

College of Public Health and Health Professions

2016- PHHP Marshal

8. HONORS AND AWARDS:

2008-2009 People Scholarship (First Degree), Fudan University, China

2009-2010 Shanghai Municipal Government Scholarship

2010-2011 People Scholarship (First Degree), Fudan University, China

2012 Shanghai Municipal Government Award for “Outstanding University Graduates”

2013 Outstanding Research Award at the 2013 PHHP Research Fair, University of Florida

2013 The Graduate Student Council Travel Award, University of Florida

2014 ISEE 2014 Travel Award, International Society for Environmental Epidemiology

2015 The Graduate Student Council Travel Award, University of Florida

2016 Insight Health Data Science Scholarship, Insight Data Science

2019 The Sandra A. Daugherty Award for Excellence in Cardiovascular Disease or Hypertension Epidemiology, American Heart Association

9. SKILLS

a. Programming Languages: Python, R, Java, Octave, SQL, JavaScript, SAS, Mplus, Swift

b. Tools: Pandas, NumPy, scikit-learn, TensorFlow, Theano, HTML, CSS, Bootstrap, Flask, jQuery, leaflet.js, Git, AWS, JAGS, ArcGIS, SPSS

c. Techniques: regularized linear models, random forests, SVM, neural networks, CNN, RNN, mixed-effect models, Bayesian hierarchical models, survival models, PCA, factor analysis, LDA, network analysis, probabilistic graphical models

10. EDITORIAL RESPONSIBILITIES

a. Editorial Board

2015- Frontiers in Public Health

b. Ad hoc Reviewer

2014- PLoS ONE

2014- Atmospheric Environment

2014- Frontiers in Public Health
 2014- Journal of Women's Health
 2015- Annals of Epidemiology
 2015- Journal of Testing and Evaluation
 2015- Journal of Racial and Ethnic Health Disparities
 2015- Acta Paediatrica
 2015- Environmental International
 2015- International Journal of Environment and Health
 2015- Environmental Research
 2015- International Journal of Environmental Research and Public Health
 2015- Cities
 2015- Toxins
 2015- International Archives of Endocrinology Clinical Research
 2016- Journal of Urology and Research
 2016- Sustainability
 2016- Austin Public Health
 2017- Journal of Novel Physiotherapy and Physical Rehabilitation
 2017- Journal of Cardiovascular Medicine and Cardiology
 2017- BMJ Open
 2017- BMC Medical Informatics and Decision Making
 2017- International Journal of Epidemiology
 2017- Journal of Precision Medicine and Public Health
 2017- Journal of Exposure Science and Environmental Epidemiology
 2017- BMC Pregnancy and Childbirth
 2017- BMC Public Health
 2017- World Medical and Health Policy
 2018- New England Journal of Medicine
 2018- Journal of Psychiatric Research
 2019- Hypertension
 2019- Journal of Epidemiology & Community Health
 2019- PeerJ
 2020- Environmental Pollution
 2020- International Journal of Health Geographics

c. Conference Abstract Reviewer

2015 The 143rd APHA Annual Meeting and Exposition (October 31 - November 4)
 2016 The 4th Epidemiology Congress of the Americas (June 21-24)
 2017 The 50th Annual Society for Epidemiologic Research Meeting (June 20-23)
 2017 The 145th APHA Annual Meeting and Exposition (November 4-8)

11. RESEARCH EXPERIENCES

University of Florida, Gainesville, FL

- 2012-2015 **Research Assistant** for Dr. Xiaohui Xu
- Conducted research on the health effects of environmental exposures, especially focus on air pollution exposure and adverse pregnancy outcomes.
- 2013-2014 **Research Assistant** for Dr. Maria R. Khan
- Conducted data management and analyses on the DISRUPT study.
- 2014-2016 **Research Assistant** for Dr. Linda B. Cottler
- Analyzed data from the Epidemiologic Catchment Area Study and HealthStreet, and involved in the beta phase of the ICD-11 field trial of disorders due to substance use and related health conditions.

Insight Data Science, Boston, MA

- 2016 **Fellow**
- Built NabeFinder.com, a web app to recommend neighborhoods for people with disabilities in Massachusetts using Python and Flask.
 - Developed gradient boosting decision trees models to predict individual's health status, employment, and total income in different neighborhoods in Massachusetts with Python.
 - Queried data from Google Places API and Census API, and created an interactive map using leaflet.js.

12. RESEARCH SUPPORT

a. Active

1R21ES032762

(Hu/Bian)

Title: The External Exposome and COVID-19 Severity

Agency: NIH/NIEHS

Dates: 08/20/2020 – 07/31/2022

Role: Principal Investigator (Contact)

3UL1TR0014427-06S1

(Mitchell/M.Gurka/K.Gurka/Hu)

Assessing the Feasibility of a Universal Prenatal Screening Tool to Identify Women at Risk of Pregnancy-Associated Death in Florida

Agency: NIH/NCATS

Dates: 09/01/2020 – 08/31/2021

Role: Principal Investigator (MPI)

17SDG33630165

(Hu)

Title: The Total Environment and Hypertensive Disorders of Pregnancy: A Precision Public Health Approach

Agency: American Heart Association

Dates: 07/01/2017 – 06/30/2021 (no cost extension)

Role: Principal Investigator

1NU62PS924532-01-00

(Prosperi)

Title: Spatiotemporal Analysis of HIV Drug Resistance in Florida

Agency: Florida Department of Health

Dates: 05/12/2018 – 03/31/2021

Role: Co-Investigator

1R21DA045140

(Knackstedt/Cottler)

Title: Identifying Patterns of Human Polysubstance Use to Guide Development of Rodent Models

Agency: NIH/NIDA

Dates: 09/30/2018 – 08/31/2020

Role: Co-Investigator

1R34DA050299

(Gurka)

Title: Florida Development in Early Childhood: Adversity and Drug Exposure (FL-DECADE) Study

Agency: NIH/NIDA

Dates: 09/30/2019 – 03/29/2021

Role: Co-Investigator

b. Completed

UF Shands Quasi Endowment Fund

(Hu)

Title: A Pilot Linkage between HealthStreet and the UF Health Epic Electronic Health Record

Agency: UF Shands

Dates: 01/01/2018 – 12/31/2018

Role: Principal Investigator

2018PG-T1D052

(Haller)

Title: ECHO Type 1 Diabetes: A Feasibility and Planning Proposal

Agency: Helmsley Charitable Trust

Dates: 01/22/2018 – 01/22/2019

Role: Co-Investigator

U17CE-002735

(Jeffries)

Title: Prescription Drug Overdose: Prevention for States

Agency: CDC-National Center for Injury Prevention and Control (NCIPC)

Dates: 03/01/2016 – 08/31/2019

Role: Consortium Co-Investigator

c. Pending

The External Exposome and Alzheimer's Related Dementia (R21/R33)

Agency: NIH/NIA

Dates: 04/01/2021 – 03/31/2026

Role: Principal Investigator (Contact)

Hypertensive Disorders of Pregnancy and Early Risk of Maternal CVD: Influence of the External Exposome (K01)

Agency: NIH/NHLBI

Dates: 04/01/2021 – 03/31/2026

Role: Principal Investigator

The Long-term Effects of COVID-19 with Real-world Data and the External Exposome (R01)

Agency: NIH/NIAID

Dates: 04/01/2021 – 03/31/2026

Role: Principal Investigator (MPI)

13. TEACHING RESPONSIBILITIES

University of Florida, Gainesville, FL

a. Independent Teaching

2017 **Instructor**, Measurement in Epidemiology and Outcomes Research (PHC 6711)

2017- **Instructor**, Critical Skills in Data Manipulation for Population Science (PHC 7065)

2018- **Instructor**, Spatial Epidemiology (PHC 6194)

b. Guest Lectures

2014 **Guest Speaker**, Bayesian Disease Mapping, Spatial Epidemiology (PHC6194)

2015 **Guest Speaker**, Introduction to ROC Analysis, Measurement in Epidemiology and Outcomes Research (PHC6711)

2016-2018 **Guest Speaker**, Multilevel Approaches, Social Epidemiology (PHC6016)

2016-2018 **Guest Speaker**, Causal Inference, Social Epidemiology (PHC6016)

2017-2019 **Guest Speaker**, Bayesian Approaches, Epidemiology Seminar II (PHC 7000)

2017 **Guest Speaker**, Environmental Issues in Public Health, Public Health Concepts (PHC4101)

2017,2019 **Guest Speaker**, Epidemiological Evidence on the Impact of Environment on Pregnancy, Birth and Child Health Outcomes, Maternal and Child Health Epidemiology (PHC6937)

2017 **Guest Speaker**, Identifying Disparities Using Big Data, Translational Research and Therapeutics: Bench, Bedside, Community, and Policy (GMS6847)

2018 **Guest Speaker**, Gradient Boosting, Data Science for Clinical Research (GMS 6803)

2018 **Guest Speaker**, Exposome, Measurement in Epidemiology and Outcomes Research (PHC6711)

c. Teaching Assistantship

2013 **Teaching Assistant**, Principles of Epidemiology (PHC6001)

2013 **Teaching Assistant**, Public Health Concept (PHC4101)

14. MENTORING

a. University Minority Mentor Program

2018-2019 Jenny Boc, University of Florida

b. MPH Advisor

2016-2019 Zachary Mannes, Department of Epidemiology, University of Florida

2017-2019 Benjamin Borgert, Department of Epidemiology, University of Florida

2018-2020 Scott Cohen, Department of Epidemiology, University of Florida

2018-2020 Amy Vickers, Department of Epidemiology, University of Florida

c. MS Advisor

2018-2020 Erica Swilley, Department of Epidemiology, University of Florida

d. PhD Advisor

2018- Veronica Richards, Department of Epidemiology, University of Florida

e. PhD Mentor

2018- Yi Zheng, Department of Epidemiology, University of Florida

f. MS Thesis Committees

2017-2019 Jia Qi, Department of Epidemiology, University of Florida

2017-2019 Upuli A. Dissanayake, Department of Epidemiology, University of Florida

2018-2020 Dakota W. Derry, Department of Epidemiology, University of Florida

g. PhD Dissertation Committees

2017-2019 Jae Min, Department of Epidemiology, University of Florida

2017- Tong Kang, Department of Biostatistics, University of Florida

2018-2020 Yiyang Liu, Department of Epidemiology, University of Florida

15. PROFESSIONAL SOCIETIES AND ORGANIZATIONS

2013- Society for Epidemiologic Research

2014- International Society for Environmental Epidemiology

2014- National Association of Chronic Disease Directors

2017- American Heart Association

16. BIBLIOGRAPHY (* indicates corresponding author)

a. Peer reviewed manuscripts

1. **Hu H**, Dailey AB, Kan H, Xu X. The effect of atmospheric particulate matter on survival of breast cancer among US females. *Breast Cancer Research and Treatment*. May 2013;139(1):217-226. PMID: 23592372
2. Xu X, **Hu H**, Kearney G, Kan H, Sheps DS. Studying the Effects of Polycyclic Aromatic Hydrocarbons on Peripheral Arterial Disease in the United States. *Science of the Total Environment*. 2013; 461-462: 341-347. PMID: 23747551
3. Xu X, **Hu H**, Dailey AB, Kearney G, Talbott EO, Cook RL. Potential Health Impacts of Heavy Metals on HIV-Infected Population in USA. *PLoS ONE*. 2013;8(9):e74288. PMID: 24023932
4. Xu X, Ha S, Kan H, **Hu H**, Curbow B, Lissaker C. Health effects of air pollution on length of respiratory cancer survival. *BMC Public Health*. 2013;13(1):800. PMID: 24004483
5. Xu X, **Hu H**, Ha S, Roth J. Ambient air pollution and hypertensive disorder of pregnancy. *Journal of Epidemiology and Community Health*. Jan 2014;68(1):13-20. PMID: 24022815
6. **Hu H**, Ha S, Roth J, Kearney G, Talbott EO, Xu X. Ambient air pollution and hypertensive disorders of pregnancy: A systematic review and meta-analysis. *Atmospheric Environment*. 2014;97(0):336-345. PMID: 25242883
7. Ha S, **Hu H**, Roussos-Ross D, Haidong K, Roth J, Xu X. The effects of air pollution on adverse birth outcomes. *Environmental research*. 2014;134(0):198-204. PMID: 25173052
8. **Hu H**, Odedina FT, Reams RR, Lissaker CT, Xu X. Racial Differences in Age-Related Variations of Testosterone Levels Among US Males: Potential Implications for Prostate Cancer and Personalized Medication. *Journal of Racial and Ethnic Health Disparities*. 2014:1-8. PMID: 26863244
9. Cottler LB, Ajinkya S, Goldberger BA, Ghani MA, Martin DM, **Hu H**, Gold MS. Prevalence of drug and alcohol use in urban Afghanistan: epidemiological data from the Afghanistan National Urban Drug Use Study (ANUDUS). *The Lancet Global Health*. 2014;2(10):e592-e600. PMID: 25304635
10. **Hu H**, Scheidell J, Xu X, Coatsworth AM, Khan MR. Associations between blood lead level and substance use and sexually transmitted infection risk among adults in the United States. *Environmental Research*. 2014;135c:21-30. PMID: 25261860
11. **Hu H**, Kan H, Kearney G, Xu X. Associations between exposure to polycyclic aromatic hydrocarbons and glucose homeostasis as well as metabolic syndrome in nondiabetic adults. *Science of the Total Environment*. 2015; 505: 56-64. PMID: 25310882
12. Khan MR, Golin C, Friedman S, Scheidell JD, Adimora AA, Monk S, Hobbs M, Dockery G, Brown S, Oza K, Hammond M, Meyers D, **Hu H**, Wohl DA. STI/HIV Sexual Risk Behavior and Prevalent STI Among Incarcerated African American Men in Committed Partnerships: The Significance of Poverty, Mood Disorders, and Substance Use. *AIDS and Behavior*. Apr 12 2015. PMID: 25863467

13. Ha S, **Hu H**, Roth J, Kan H, Xu X. Associations Between Residential Proximity to Power Plants and Adverse Birth Outcomes. *American Journal of Epidemiology*. 2015;182(3):215-224. PMID: 26121989
14. **Hu H**, Ha S, Henderson BH, Warner TD, Roth J, Kan H, Xu X. Association of Atmospheric Particulate Matter and Ozone with Gestational Diabetes Mellitus. *Environmental Health Perspectives*. 2015;123(9):853-859. PMID: 25794412
15. Chen R, Qiao L, Li H, Zhao Y, Zhang Y, Xu W, Wang C, Wang H, Zhao Z, Xu X, **Hu H**, Kan H. Fine particulate matter constituents, nitric oxide synthase DNA methylation and exhaled nitric oxide. *Environmental Science & Technology*. 2015 Sep 24;49(19):11859-65. PMID: 26372312
16. Xu X, Chen X, **Hu H**, Dailey AB. Current Opinion in the Role of Testosterone in the Development of Prostate Cancer: A Dynamic Model. *BMC Cancer*. 2015 Oct 26; 15(1): 806. PMID: 26502956
17. Kearney GD, **Hu H**, Xu X, Hall M, Balanay JA. Estimating the Prevalence of Heat-Related Symptoms and Sun Safety Related Behavior among Latino Farmworkers in Eastern North Carolina. *Journal of Agromedicine*. 2016 Jan 2;21(1):15-23. PMID: 26479455
18. Cottler LB, **Hu H**, Smallwood BA, Anthony JC, Wu L, Eaton WW. Nonmedical Opioid Pain Relievers and All-Cause Mortality: A 27-Year Follow-Up From the Epidemiologic Catchment Area Study. *American Journal of Public Health*. 2016 Mar; 106(3). PMID: 26691106
19. Ha S, **Hu H**, Mao L, Roussos-Ross D, Roth J, Xu X. Potential Selection Bias Associated With Using Geocoded Birth Records for Epidemiological Research. *Annals of Epidemiology*. 2016 Mar 31; 26(3):204-11. PMID: 26907541
20. Shen Y, **Hu H**, Taylor B, Kan H, Xu X. Early Menarche and Gestational Diabetes Mellitus: Results from the NHANES 2007-2012. *Maternal and Child Health*. 2016 Jul 25: 1-6. PMID: 27456304
21. Xu X, **Hu H**, Hong YA. Body Burden of Heavy Metals among HIV High Risk Population in USA. *Environmental Pollution*. 2016 Nov 14. PMID: 27856018
22. Xu X, **Hu H**, Ha S, Han D. A Smartphone-assisted Spatial Data Collection Method to Improve Geographic Information Quality: A Pilot Study Using Birth Dataset. *Geospatial Health*. 2016;11(482):342-348. PMID: 27903063
23. **Hu H***, Ha S, Xu X. Ozone and Hypertensive Disorders of Pregnancy in Florida: Identifying Critical Windows of Exposure. *Environmental Research*. 2017;2(153):120-125. PMID: 27940104
24. Xu X, **Hu H**, Kearney G, Kan H, Carrillo G, Chen X. A Population-based Study of Smoking, Serum Cotinine, and Exhaled Nitric Oxide among Asthmatics and a Healthy Population in the U.S. *Inhalation Toxicology*. 2016 Dec;28(14):724-730. PMID: 27973944
25. Khan MR, El-Bassel N, Golin CE, Scheidell JD, Adimora AA, Coatsworth AM, **Hu H**, Judon-Monk S, Medina KP, Wohl DA. The Committed Intimate Partnerships of

- Incarcerated African-American Men: Implications for Sexual HIV Transmission Risk and Prevention Opportunities. *Archives of Sexual Behavior*. 2017 Mar 22;1-3. PMID: 28332036
26. **Hu H**, Eaton WW, Anthony JC, Wu L, Cottler LB. Age of First Drunkenness and Risks for All-cause Mortality: a 27-year Follow-up from the Epidemiologic Catchment Area Study. *Drug and Alcohol Dependence*. 2017 Jul 1;176:148-53. PMID: 28535457
 27. Chen X, **Hu H**, Xu X, Gong J, Yan Y, Fang L. Probability Sampling By Connecting Space with Households using GIS/GPS Technologies. *Journal of Survey Statistics and Methodology*. 2018 Jan 23.
 28. Chen X, **Hu H**. Rejoinder to the Discussion by Steven Heeringa. *Journal of Survey Statistics and Methodology*. 2018 Apr 18.
 29. Zazzi M, **Hu H**, Prosperi M. The global burden of HIV-1 drug resistance in the past 20 years. *PeerJ*. 2018 6:e4848. PMID: 29844989
 30. Khan MR, Scheidell JD, Golin CG, Friedman SR, Adimora AA, Lejuez CW, **Hu H**, Quinn K, Wohl DA. Dissolution of Committed Partnerships during Incarceration and STI/HIV-related Sexual Risk Behavior after Prison Release among African American Men. In Press: *J Urban Health*. 2018 Aug 2;1-9. PMID: 30073599
 31. **Hu H***, Xiao H, Zheng Y, Yu BB. A Bayesian Spatio-temporal Analysis on Racial Disparities in Hypertensive Disorders of Pregnancy in Florida, 2005-2014. *Spatial and Spatio-temporal Epidemiology*. 2019 Jun 1;29:43-50. PMID: 31128630
 32. Shen Y, Varma DS, Zheng Y, Jenny B, **Hu H***. Age at Menarche and Depression: Results from the NHANES 2005-2016. *PeerJ*. 2019 Jun 13;7:e7150. PMID: 31223544
 33. Niu J, Liang H, Tian Y, Yuan W, Xiao H, **Hu H**, Sun X, Song X, Wen S, Yang L, Ren Y, Miao M. Prenatal Plasma Concentrations of Perfluoroalkyl and Polyfluoroalkyl Substances and Neuropsychological Development in Children at Four Years of Age. *Environmental Health*. 2019 Dec;18(1):53. PMID: 31196101
 34. Tian Y, Liang H, Miao M, Yang F, Ji H, Cao W, Liu X, Zhang X, Chen A, Xiao H, **Hu H**, Yuan W. Prenatal Exposure to Perfluoroalkyl and Polyfluoroalkyl Substances and Anogenital Distance in Male Infants from a Shanghai Birth Cohort. *Human Reproduction*. 2019 Jul; 34(7):1356-1368. PMID: 31242507
 35. Fische JN, Bian J, Chen Z, **Hu H**, Min J, Modave F, Prosperi M. Prodromal clinical, demographic, and socio-ecological correlates of asthma in adults: A 10-year statewide big data multi-domain analysis. *Journal of Asthma*. 2019 Jul 10;1-4. PMID: 31288571
 36. Tighe P, Modave F, Horodyski M, Marsik M, Lipori G, Fillingim R, **Hu H**, Hagen J. Geospatial Analyses of Pain Intensity and Opioid Unit Doses Prescribed on the Day of Discharge Following Orthopedic Surgery. *Pain Medicine*. 2019 Dec 4. PMID: 31800063
 37. **Hu H***, Bian J, Zhao J. Ambient Air Pollution and Preeclampsia: Looking Back and Moving Forward. *Hypertension*. 2020; HYPERTENSION AHA 11913269. doi:10.1161 / HYPERTENSIONAHA.119.13269. PMID: 31902251
 38. Zheng Y, Shen Y, Zhu Z, **Hu H***. Associations between Cadmium Exposure and Taste and Smell Dysfunction: Results from the National Health and Nutrition Examination

- Survey (NHANES), 2011-2014. *International Journal of Environmental Research and Public Health*. 2020; 17:943. PMID: 32028740
39. Zheng Y, Chen Z, Pearson TA, Zhao J, **Hu H***, Prospero M. Design and Methodology Challenges of Environment-Wide Association Studies: A Systematic Review. *Environmental Research*. 2020; 109275. PMID: 32105887
 40. **Hu H***, Zhao J, Savitz D, Prospero M, Zheng Y, Pearson TA. An External Exposome-Wide Association Study of Hypertensive Disorders of Pregnancy. *Environment International*. 2020; 141, 105797. PMID: 32413622
 41. Shen Y, Xiao H, **Hu H***. Racial/Ethnic Differences in Age at Menarche and Lifetime Non-medical Marijuana Use: Results from the NHANES 2005-2016. *Journal of Racial and Ethnic Health Disparities*. 2020 Jun 17:1-6. PMID: 32557278
 42. Rich SN, Poschman K, **Hu H**, Mavian C, Cook RL, Salemi M, Spencer EC, Prospero M. Sociodemographic, Ecological, and Spatiotemporal Factors Associated with HIV Drug Resistance in Florida: A Retrospective Analysis. *The Journal of Infectious Diseases*. 2020 Jul 9: jiaa413.
 43. Walker AF, **Hu H**, Cuttriss N, Anez-Zabala C, Yabut K, Haller MJ, Maahs D. The Neighborhood Deprivation Index and Provider Geocoding Identify Critical Catchment Areas for Diabetes Outreach Programs. *The Journal of Clinical Endocrinology and Metabolism*. 2020; dgaa462.

b. Letter to the Editor:

1. **Hu H***. Re: "Prospective Study of Ultraviolet Radiation Exposure and Mortality Risk in the United States". *American Journal of Epidemiology*. November 15, 2013. PMID: 24243741

Manuscripts in publication:

1. Zheng Y, Wen T, Shen Y, **Hu H***. Age at Menarche and Cardiovascular Health: Results from the NHANES 1999-2016 (*Accepted by Menopause, 07/28/2020*)

Manuscripts under review/revision:

1. Zheng Y, Wen X, Bian J, Lipkind H, **Hu H***. The Associations between Compositions of Fine Particulate Matter and Gestational Diabetes Mellitus (*Submitted to Environmental Research, 07/27/2020*)
2. **Hu H**, Zheng Y, Wen X, Fowler EE, Strachan E, Duncan GE, Zhao J. An External Exposome-Wide Association Study of Depression: A Monozygotic Twin Study (*Submitted to Environmental Health Perspectives, 08/22/2020*)
3. Zheng Y, Wen X, Bian J, Zhao J, Lipkind HS, **Hu H***. Racial and Geographic Disparities in Cardiovascular Health among Pregnant Women in the United States (*Under Revision*)
4. **Hu H**, TBD. Individual- and Neighborhood-Level Predictions of Hypertensive Disorders of Pregnancy Using External Exposome-Wide Data (*Under Revision*)
5. **Hu H**, TBD. A Precision Public Health Approach to Identify External Exposomic

17. CONFERENCE ABSTRACTS

1. **Hu H**, Xu X. Health Effects of Traffic-related Air Pollution on Length of Respiratory Cancer Survival. 2013 PHHP Research Fair, University of Florida, Gainesville, FL, USA – April 2013
2. **Hu H**, Dailey A, Kan H, Xu X. The effect of atmospheric particulate matter on survival of breast cancer among US females. The 46th Annual Society for Epidemiologic Research Meeting, Boston, MA, USA – June 2013
3. Xu X, **Hu H**. Ambient Air Pollution and Hypertensive Disorders of Pregnancy in Jacksonville, Florida. The joint ISEE, ISES and ISIAQ Environmental Health Conference, Basel, Switzerland – August 2013
4. Ha S, **Hu H**, Xu X. The Effects of Airborne Lead Exposure on Adverse Birth Outcomes. 2014 PHHP Research Fair, University of Florida, Gainesville, FL, USA – April 2014
5. **Hu H**, Ha S, Roth J, Xu X. Association of Ambient Air Pollution with Hypertensive Disorders of Pregnancy in Florida. 2014 PHHP Research Fair, University of Florida, Gainesville, FL, USA – April 2014
6. **Hu H**, Scheidell J, Coatsworth A, Xu X, Khan M. Associations between Blood Lead Level and Substance Use among Adults in the United States. The College on Problems of Drug Dependence 2014, San Juan, Puerto Rico – June 2014
7. **Hu H**, Kan H, Kearney G, Xu X. Association of Polycyclic Aromatic Hydrocarbons with Glucose Homeostasis, Metabolic Syndrome, and Diabetes in USA Adults. The 47th Annual Society for Epidemiologic Research Meeting, Seattle, WA, USA – June 2014
8. **Hu H**, Xu X. Association of Blood Cadmium and Lead with Prostate-Specific Antigen Levels: Results from the 2001-2010 National Health and Nutritional Examination Survey. ISEE 2014, Seattle, WA, USA – August 2014
9. Xu X, **Hu H**, Ha S, Roth J, Henderson B. Health Effects of Air Pollution on Gestational Complications. *Oral Presentation*, ISEE 2014, Seattle, WA, USA – August 2014
10. Shen Y, **Hu H**, Xu X. Early Menarche and Gestational Diabetes Mellitus: Results from the NHANES 2007-2012. The 48th Annual Society for Epidemiologic Research Meeting, Denver, CO, USA – June 2015
11. **Hu H**, Xu X. Smoking, Serum Cotinine, and Exhaled Nitric Oxide in U.S. Asthmatic and Healthy Population: Results from the National Health and Nutrition Examination Survey 2007-2012. The 48th Annual Society for Epidemiologic Research Meeting, Denver, CO, USA – June 2015
12. Varma DS, Kwaitkowski E, **Hu H**, Striley CW, Cottler LB. Research Participant Recruitment Using Text Messaging and Social Media. APHA 2016 Annual Meeting & Expo, Denver, CO, USA – October 2016
13. **Hu H**, Striley CW, Cottler LB. The Association between Neighborhood Deprivation and Past Month Prescription Opioid Use. The College on Problems of Drug Dependence 79th Annual Scientific Meeting, Montréal, Canada – June 2017

14. **Hu H.** Use of Urinary Lead as a Proxy for Blood Lead: A Predictive Model. The 50th Annual Society for Epidemiologic Research Meeting, Seattle, WA, USA – June 2017
15. **Hu H,** Shen Y. Gender Differences in the Association between Cadmium Exposure and Metabolic Syndrome in Non-diabetic Adults. The 50th Annual Society for Epidemiologic Research Meeting, Seattle, WA, USA – June 2017
16. Gurka KK, **Hu H,** Linn HI, Thompson GL, Christy DM. Changes in Drug-Related Fatal Overdoses following Passage of Senate Bill 437 in West Virginia: Heterogenous Effects by Type and Combination of Opioids. The Society for the Advancement of Violence and Injury Research Meeting, Ann Arbor, MI, USA – September 2017
17. **Hu H,** Xiao H, Zheng Y. A Bayesian Spatio-temporal Analysis on Racial Disparities in Hypertensive Disorders of Pregnancy in Florida, 2005-2014. The 51st Annual Society for Epidemiologic Research Meeting, Baltimore, MD, USA – June 2018
18. **Hu H,** Pearson TA, Zhao J, Proserpi M, Rasmussen SA, Xiao H, Cottler LB. Geographic Disparities in Hypertensive Disorders of Pregnancy: An Environment-Wide Association Study. AHA Epi|Lifestyle 2019 Scientific Sessions, Houston, TX, USA – March 2019
19. Linn HI, Rudisill TM, Gurka KK, **Hu H,** Ashraf A., Jeffries J. The West Virginia Rapid Response Project: A Statewide Naloxone Distribution Program. Invited oral presentation during the Community Response Showcase at the National Rx Drug and Heroin Summit, Atlanta, GA, USA – May 2019.
20. **Hu H,** Bian J, Pearson TA, Lipkind HS, Zheng Y, Zhao J. Development of Predictive Models for Cardiovascular Health to Support Its Use in Real-World Data. AHA Epi|Lifestyle 2020 Scientific Sessions, Phoenix, AZ – March 2020.
21. **Hu H,** Zhao J, Bian J, Zheng Y, Pearson TA. A Polyexposomic Risk Score for Hypertensive Disorders of Pregnancy Using External Exposome Data. AHA Epi|Lifestyle 2020 Scientific Sessions, Phoenix, AZ – March 2020.
22. Zheng Y, Bian J, Lipkind HS, Zhao J, Pearson TA, **Hu H.** Racial/ethnic and Geographic Disparities in Cardiovascular Health among Pregnant Women in the US. AHA Epi|Lifestyle 2020 Scientific Sessions, Phoenix, AZ – March 2020.