

COURTNEY G. WOODS

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Associate Professor
Department of Environmental Sciences and Engineering
Gillings Global School of Public Health
University of North Carolina at Chapel Hill

EDUCATION

Ph.D. Environmental Sciences and Engineering, minor in Toxicology University of North Carolina at Chapel Hill	2007
M.S. Chemical Engineering Georgia Institute of Technology	2003
B.S. Chemical Engineering, minor in Materials Science & Engineering University of Tennessee-Knoxville	2001

PROFESSIONAL EXPERIENCE

Associate Professor (clinical track), Dept. Of Envr Sci. and Engr., UNC-Chapel Hill	2022- Present
Founding Director, Environmental Justice Action Research Clinic	2021- Present
Assistant Professor (clinical track), Dept. of Envr Sci. and Engr., UNC-Chapel Hill	2017- 2022
Program Director, MPH in Environmental Sciences and Engineering	2017- Present
Program Co-Director, MPH in Health Equity, Social Justice and Human Rights	2018- Present
Collaborating Faculty, Dept. of Health, Environment and Work, Federal Univ. of Bahia	2015- Present
Lecturer, Dept. of Environmental Sciences and Engineering, UNC- Chapel Hill	2012-2017
Research Investigator, Division of Computational Biology, The Hamner Institutes	2009-2011
Visiting Postdoctoral Fellow, Division of Computational Biology, The Hamner Institutes	2007 - 2009
Postdoctoral Fellow, Toxicology and Envr. Sciences, ExxonMobil Biomedical Sciences	2007 – 2009
Visiting Graduate Research Assistant, Nat'l Inst. of Envr. Health Sciences (NIEHS)	2003-2006

HONORS AND AWARDS

RTI Faculty Fellow	2022-2023
Provost Engaged Scholarship Award for Engaged Research	2021
Gillings Teaching Excellence and Innovation	2021
Thorp Faculty Engaged Scholar, Class VII (\$10,000)	2018-2020
Steve Wing International Environmental Justice Award	2017
UNC Explorations in Global Health (\$1500)	2016
UNC Global Partnerships Award (\$1000)	2015
Newton Underwood Award for Excellence in Teaching (nominated by UNC ESE students)	2015
Fogarty Global Health Fellow	2014-2015
Fulbright Fellow	2014-2015
Faculty Research Int'l Travel Award, UNC Institute for the Study of the Americas	2013
Future Faculty Fellowship Program, UNC Center for Faculty Excellence	2012
FASEB Postdoctoral Professional Development and Enrichment Award	2008
NIEHS Toxicogenomics Research Consortium Meeting Best Poster Award	2004
Minority Trainee Research Forum Travel Award	2004
NSF-Sponsored Alliances for Graduate Education and the Professoriate (AGEP) Fellowship	2003
Georgia Tech School of Chemical Engineering Most Outstanding Teaching Assistant	2003
University of Tennessee Honors Program (with Honors Thesis)	1997-2001
Completed a 5-year Engineering B.S. & Co-op Program in 4 years	1997-2001

PUBLICATIONS

Book Chapters

Zhang Q, Bhattacharya S, Woods CG, Andersen ME. Ultrasensitive Response Motifs in Biochemical Networks. In :Krishnan, K., K., Andersen, M.E. (eds) Quantitative Modeling in Toxicology. 1st ed. John Wiley & Sons, Ltd.. 2010.

Under Review

Witter, RC, Woods, CG, Legerton, M, Powell, DE., Emmanuel, RE., White-Williamson, S., Chavis, D., Currie II, J., Koonce, DM., Grooms, S., Tuberty, S., Ogilvie Hendren, C., Sugg, M. Advancing a Systems Approach to Environmental Justice for Cumulative Impact Assessment. *Science*. Under Review

Sprouse, L, Kryston, A, Lebu, S, Muoghalu, C, Woods, CG, Manga, M. Septic systems in North Carolina: A neglected half of the state? *PLOS One*. Under Review

Woods, CG*, Witter, RC, White-Williamson, S, Koonce, D., Babyak, CM., Wuberty, SR. Collaborative Research as Action: Working Towards Rural Water Justice and Well-being in Eastern NC. *Environmental Justice*. Under Review

Quist A, Cowan, K, Walsh, A, Holloman, D, Davis, C., McEachern, P, Woods, CG. Assessing Post-Hurricane Mold Exposure Concerns in A Historically Marginalized Area of Eastern North Carolina. *Environmental Justice*. Under Review

Wilkie AA, Luben, Rappazzo, K, Foley, K., Woods, CG, Serre, ML, Richardson, DB, Daniels, JL Long-term ambient sulfur dioxide exposure during gestation and preterm birth in North Carolina, 2003-2015 *Atmospheric Environment*. Revise and Resubmit

Refereed Articles

*Corresponding Author

37. Kryston, A, Woods, CG, Manga, M. Barriers to safe sanitation among housed populations in the United States: A systematic review (2024). *Intl Journal of Hygiene and Environmental Health. Int J Hyg Environ Health*. 257:114326

36. Walsh A and Woods, CG*(2023). Presence of Perfluoroalkyl Substances in Landfill Adjacent Surface Waters in North Carolina. *Intl Journal of Environmental Research & Public Health*. 20 (15), 6524.

35. Rimmler SM, Shaughnessy S, Tatum E, Muhammad N, Hawkins S, Lightfoot A, White-Williamson S, Woods CG* (2023). Photovoice Reveals Residents' Concerns for Air and Water Quality in Industry-Impacted Rural Community. *International Journal of Environmental Research and Public Health*. 20(9):5656.

34. Wilkie AA, Richrdson, DB, Luben, TJ, Serre, ML, Woods, CG, Daniels, JL (2023). Sulfur dioxide reduction at coal-fired power plants in North Carolina and associations with preterm birth among surrounding residents. *Environmental Epidemiology*. 7 (2)/

33. Wilkie AA, Richrdson, DB, Luben, TJ, Serre, ML, Woods, CG, Daniels, JL (2022). North Carolina's Changing Energy Generation Profile and Reductions in Key Air Pollutants, 2000-2019. *NCMJ*.
32. Filho, DMdS, Manuel, S., Amauro, NQ, Pereira, GL, Woods, CG (2022). Apresentação do caderno temático: Racismo ambiental e re-existência de territórios negros em todo o mundo. Revista da ABPN. 14 (Ed. Especial).
31. McMullen, PD, Bhattacharya, S, Woods, CW, Pendse SN, McBride, MT, LeCluyse, EL, Clewell, RA, Melvin E. Andersen, ME (2020). Identifying qualitative differences in PPAR α signaling networks in human and rat hepatocytes and their significance for next generation chemical risk assessment methods. *Toxicology In Vitro*. 64: 104463
30. Couto, MCBM, Falcão, IR, Müller JDS, Alves, JB, Viana, WS, Lima, VMC, Pena, PGL, Woods, CG, Rego, RF (2019). Prevalence and work-related factors associated with lower back musculoskeletal disorders in female shellfish gatherers in Saubara, Bahia – Brazil. *IJERPH*. 16(5): 857
29. Guidry, VT, Rhodes, SM, Woods, CG*, Hall, DJ, Rinsky, JL (2018). Connecting Environmental Justice and Community Health Effects of Hog Production in North Carolina. *NCMJ*. 79 (5): 324-328.
28. Müller JDS, Falcão IR, Couto MCBM, Viana WDS, Alves IB, Viola DN, Woods CG, Rêgo RCF (2017). Artisanal fisherwomen/shellfish gatherers: analyzing the impact of upper limb functioning and disability on health-related quality of life. *Cien Saude Colet*. 22(11):3635-3644.
27. Müller JDS, Falcão IR, Couto MC, Viana WDS, Alves IB, Viola DN, Woods CG, Rêgo RCF (2016). Health-Related Quality of Life among Artisanal Fisherwomen/Shellfish Gatherers: Lower than the General Population. *Int J Environ Res Public Health*. 13(5).
26. McMullen PD, Bhattacharya S, Woods CG, Sun B, Ross, SM, Miller ME, McBride M, LeCluyse, EL, Clewell RA, Andersen, ME (2014). A map of the PPAR α transcription regulatory network for primary human hepatocytes. *Chemico-Biological Interactions*. Feb; 209:14-24.
25. Fu J, Zhang Q, Woods CG, Zheng H, Yang B, Qu W, Andersen ME, Pi J (2013). Divergent Effects of Sulforaphane on Basal and Glucose-Stimulated Insulin Secretion in β -cells: Role of Reactive Oxygen Species and Induction of Endogenous Antioxidants. *Pharm Res*. 30(9):2248-59.
24. Xue P, Hou Y, Chen Y, Yang B, Fu J, Zheng H, Yarborough K, Woods CG, Liu D, Yamamoto M, Zhang Q, Andersen ME, Pi J (2013). Adipose deficiency of Nrf2 in ob/ob mice results in severe metabolic syndrome. *Diabetes*. 62(3):845-54.
23. Hou Y, Xue P, Woods CG, Wang X, Fu J, Yarborough, Qu W, Zhang Q, Andersen ME, Pi J (2013). Association between arsenic suppression of adipogenesis and induction of CHOP10 via the endoplasmic reticulum stress response. *Environ Health Perspect*. 121 (2): 237-43.
22. Bhattacharya S, Shod LK, Zhang Q, Woods CG, Howell BA, Siler SQ, Woodhead JL, Yang Y, McCullen P, Watkins PB, Andersen ME (2013). Modeling drug- and chemical- induced hepatotoxicity with systems biology approaches. *Front Physiol*. 3:462.

21. Yang B, Fu J, Zheng H, Xue P, Yarborough K, Woods CG, Hou Y, Zhang Q, Andersen ME, Pi J (2012). Deficiency in the nuclear factor E2-related factor 2 renders pancreatic β -cells vulnerable to arsenic-induced cell damage. *Toxicol Appl Pharmacol.* 264(3):315-23.
20. Zhan L, Zhang H, Zhang Q, Woods CG, Chen Y, Xue P, Dong J, Tokar EJ, Xu Y, Hou Y, Fu J, Yarborough K, Wang A, Qu W, Waalkes MP, Andersen ME, Pi J (2012). Regulatory role of KEAP1 and NRF2 in PPAR γ expression and chemoresistance in human non-small-cell lung carcinoma cells. *Free Radic Biol Med.* 53(4):758-68.
19. Zhao R, Hou Y, Zhang Q, Woods CG, Xue P, Fu J, Yarborough K, Guan D, Andersen ME, Pi J (2012). Cross-regulations among NRFs and KEAP1 and effects of their silencing on arsenic-induced antioxidant response and cytotoxicity in human keratinocytes. *Environ Health Perspect.* 120(4):583-9.
18. Hou Y, Xue P, Bai Y, Liu D, Woods CG, Yarborough K, Fu J, Zhang Q, Sun G, Collins S, Chan JY, Yamamoto M, Andersen ME, Pi J (2012). Nuclear factor erythroid-derived factor 2-related factor 2 regulates transcription of CCAAT/enhancer-binding protein β during adipogenesis. *Free Radic Biol Med.* 52(2):462-72.
17. Xue P, Hou Y, Zhang Q, Woods CG, Yarborough K, Liu H, Sun G, Andersen ME, Pi J (2011). Prolonged inorganic arsenite exposure suppresses insulin-stimulated AKT S473 phosphorylation and glucose uptake in 3T3-L1 adipocytes: involvement of the adaptive antioxidant response. *Biochem Biophys Res Commun.* 407(2):360-5.
16. Zhao R, Hou Y, Xue P, Woods CG, Fu J, Feng B, Guan D, Sun G, Chan JY, Waalkes MP, Andersen ME, Pi J (2011). Long isoforms of NRF1 contribute to arsenic-induced antioxidant response in human keratinocytes. *Environ Health Perspect.* 119(1):56-62.
15. Fu J, Woods CG, Yehuda-Shnaidman E, Zhang Q, Wong V, Collins S, Sun G, Andersen ME, Pi J (2010). Low-level arsenic impairs glucose-stimulated insulin secretion in pancreatic beta cells: involvement of cellular adaptive response to oxidative stress. *Environ Health Perspect.* 118(6):864-70.
14. Zhang Q, Pi J, Woods CG, Andersen ME (2010). A systems biology perspective on Nrf2-mediated antioxidant response. *Toxicol Appl Pharmacol.* 244(1):84-97.
13. Pi J, Zhang Q, Fu J, Woods CG, Hou Y, Corkey BE, Collins S, Andersen ME (2010). ROS signaling, oxidative stress and Nrf2 in pancreatic beta-cell function. *Toxicol Appl Pharmacol.* 244(1):77-83.
12. Woods CG, Fu J, Xue P, Hou Y, Pluta, LJ, Yang L, Zhang Q, Thomas RS, Andersen ME, Pi J (2009). Dose-dependent transitions in Nrf2-mediated adaptive response and related stress responses to hypochlorous acid in mouse macrophages. *Toxicol Appl Pharm.* 238(1):27-36.
11. Zhang Q, Pi J, Woods CG, Andersen ME (2009). Phase I and II cross-induction of xenobiotic metabolizing enzymes: a feedforward control mechanism for potential hormetic responses. *Toxicol Appl Pharm.* 237 (3) 345–356.

10. Ross PK, Woods CG, Bradford BU, Koysk O, Gatti DM, Cunningham ML, Rusyn I (2009). Time course comparison of xenobiotic activators of CAR and PPAR α in mouse liver . *Toxicol Appl Pharm.* 235(2):199-207.
9. Zhang Q, Pi J, Woods CG, Jarabek AM, Clewell HJ, Andersen ME(2008). Hormesis and adaptive cellular control systems. *Dose Response.* 6(2) 196-208.
8. Pi J, Zhang Q, Woods CG, Wong V, Collins S, Andersen ME (2008). Activation of Nrf2-mediated oxidative stress response in macrophages by hypochlorous acid. *Toxicol Appl Pharm.* 226(3) 236-43.
7. Woods CG, Kosyk O, Bradford BU, Ross PK, Quo P, Ibrahim JG, Cunningham ML, Rusyn I (2007). Time-course investigation of PPAR α - and Kupffer cell-dependent effects of WY-14,643 in mouse liver using microarray gene expression. *Toxicol Appl Pharm.* 225(3) 267-77.
6. Beyer RP, Fry RC, Lasarev MR, McConnachie LA, Meira LB, Palmer VS, Powell CL, Ross PK, Bammler, TK, Bradford BU, Cranson AB, Cunningham ML, Fannin RD, Higgins GM, Hurban P, Kayton RJ, Kerr KF, Kosyk O, Lobenhofer EK, Sieber SO, Vliet PA, Weis BK, Wolfinger R, Woods CG, Freedman JH, Linney E, Kaufmann WK, Kavanagh TJ, Paules RS, Rusyn I, Samson LD, Spencer PS, Suk W, Tennant RJ, Zarbl H; Members of the Toxicogenomics Research Consortium (2007). Multi-Center Study of Acetaminophen Hepatotoxicity Reveals the Importance of Biological Endpoints in Genomic Analyses. *Toxicol Sci.* 99(1):326-37.
5. Porgribny IP, Tryndyak VP, Woods CG, Wiit SE, Rusyn I (2007). Epigenetic effects of the continuous exposure to peroxisome proliferator WY-14,643 in mouse liver are dependent upon Peroxisome Proliferator Activated Receptor alpha. *Mutat. Res.* 625(1-2):62-71
4. Woods CG, Burns AM, Bradford BU, Ross PK, Kosyk O, Swenberg JA, Cunningham ML, Holland, SM, Rusyn I (2007). WY-14,643-induced cell proliferation and oxidative stress in mouse liver are independent of NADPH oxidase. *Toxicol. Sci.* 98(2):366-74.
3. Woods CG, Vanden Heuval JP, Rusyn I (2007). Genomic Profiling in Nuclear Receptor- Mediated Toxicity. . *Toxicol Pathol.* 2007; 35(4):474-94.
2. Woods CG, Burns AM, Maki A, Bradford BU, Cunningham ML, Connor MD, Kadiiska MB, Mason, RP, Peters JP, Rusyn I. Sustained formation of alpha-(4-pyridyl-1-oxide)-N-tert-butylnitron radical adducts in mouse liver by peroxisome proliferators is dependent upon peroxisome proliferator activated receptor-alpha, but not NADPH oxidase. *Free Radic Biol Med.* 42(3):335-42.
1. Kono H, Woods CG, Maki A, Connor H, Mason R, Rusyn I, Fujii H (2007). Electron spin resonance and spin trapping technique provide direct evidence that edaravone prevents acute ischemia-reperfusion injury of the liver by limiting free radical-mediated tissue damage. *Free Radic Res.* 40(6):579-88.

KEY REFEREED ABSTRACTS *Contributions to over 40 conference abstracts*

Contending with Cumulative Impacts in Rural Communities International Society of Exposure Science Annual Meeting, Montreal, Canada (Oct 2024); *Symposium Co-chair*

CBPR-COMR Hybrid Model to Combat a Proposed Polluting Facility in the Anderson Community, International Association for Research on Service-Learning and Community Engagement Annual Conference, New Orleans (2023); *Co-Author*

PFAS Concentrations in Landfill Impacted Communities in North Carolina: A Pilot Study, International Society of Exposure Science Annual Meeting, Chicago, IL (2023); *Co-Author*

Presence of Perfluoroalkyl Substances in Landfill-Adjacent Surface Waters. International Society of Environmental Epidemiology Annual Conference, (2020); *Co-Author*

Establishing Equitable Partnerships in Community-based Environmental Justice Research, International Society of Environmental Epidemiology Annual Conference, São Paulo, Brazil (2015); *Symposium Chair*

Constructing a PPAR α -mediated Transcriptional Network in Primary Human and Rat Hepatocytes. Society of Toxicology Annual Meeting, Washington, DC (2011)

Organizing a PPAR α - mediated Transcriptional Network in Primary Hepatocytes. Keystone Symposium on Nuclear Receptors: Signaling, Gene Regulation and Cancer, Keystone, CO (2010).

Regulatory role of kinase signaling in Nrf2-mediated antioxidant response. The European Nutrigenomics Organisation Meeting, Montecatini Terme, Italy (2009)

Toxicogenomic analysis of cardiovascular effects of diesel engine exhaust in ApoE $^{-/-}$ mice. Society of Toxicology Annual Meeting, Baltimore, MD (2009)

Regulatory mechanism of Nrf2 activation by hypochlorous acid and concomitant activation of inflammatory pathways. Society of Toxicology Annual Meeting, Seattle, WA (2008).

Role of nuclear receptor-independent mechanisms in long-term effects of nongenotoxic hepatocarcinogens. Conference on Current and Future Challenges in Envr. Health, Toxc., and Food Safety in Eastern and Central Europe, Kiev, Ukraine (2006).

Toxicogenomic analysis of nuclear receptor-mediated and nuclear receptor-independent responses to peroxisome proliferators. Society of Toxicology Annual Meeting, New Orleans, NC (2005).

NON-REFEREED ARTICLES

Woods, CG, Muzzy, JD. Role of nanoparticles on crystalline orientation in polypropylene/clay nanocomposite films (2003). Society of Plastics Engineers Annual Technical Conference. 2: 2205-09.

INVITED PRESENTATIONS

Guest Speaker, Water Justice Across NC, World Water Day Program at Carol Woods Retirement Community, March 19, 2024

Guest Speaker, Methods to Assess Population Needs, Assets and Capacities, ENVR 400 Seminar, Feb 7, 2024

Guest Speaker, Methods to Assess Population Needs, Assets and Capacities, Gillings T32 Environmental Health Trainee Community Engagement Workshop, Jan 12, 2024

Panelist, Reparative and Transformative Approaches to Land, Taproot Earth's Summit on Climate & Environmental Justice, Racism and Law, November 16, 2023

Panelist, Environmental Justice and Community Engagement, Carolinas Collaborative on Climate, Health, and Equity (C3HE) Monthly Webinar, Sept 27, 2023

Guest Speaker, Considering Environmental Determinants of Health in Your Research, UNC Health Equity Research Intensive, Sept 19, 2023

Panelist, Environmental Justice, Industrial Animal Agriculture and Rural Communities, Univ of Maryland Center for Engagement, EJ & Health (CEEJH) Annual Symposium, September 11, 2023

Guest Speaker, The Measure of Everyday Life Podcast, May 12, 2023

Guest Speaker, A Primer on Environmental Justice. Leadership NC, April 13, 2023

Guest Speaker, Current State of Waste and Race in North Carolina. Carolina Engagement Week. March 2, 2023

Moderator, Panel Discussion following Smell of Money Screening. North Carolina Engagement Week. Feb 28, 2023

Panelist, NC Black Alliance EJ and Health Summit, August 12, 2022

Panelist, Voices from the Frontlines. NC BREATH Conference on Health Equity and The Climate Crisis. April 7, 2022.

Presenter, Assessing Water Quality and Public Infrastructure Access: A Focused Analysis on Sampson County. NC Department of Environmental Quality Environmental Justice and Equity Advisory Board. February 28, 2022.

Moderator, Discussion with Keynote Presenter, Jacqui Patterson. Minority Health Conference. February 24, 2022.

Presenter. "Don't Go In With Your Know-It -All Hat On": Applying Community-Driven Approaches to Environmental Health Research. Gangarosa Department of Environmental Health at Emory University. October 28, 2021.

Presenter. Foi Na Beira do Mar: Where An Environmental Health Disaster Unfolds in Northeastern Brazil. UNC Geography Colloquium. November 1, 2019.

Panelist. Climate Justice. Forum for Scholars and Publics at Duke University, September 12, 2019.

Presenter. Environmental Justice at home and abroad. NCIPH Lunch and Learn Series, UNC, Chapel Hill, July 16, 2019.

Presenter. Racismo e Saúde Ambiental no EUA (Racism and Environmental Health in the US). Dept of Gender and Feminism, School of Philosophy and Human Sciences. Universidade Federal da Bahia, July 16, 2019.

Presenter. Agricultura Animal Industrial: Um Caso de Injustiça Ambiental em Carolina do Norte, EUA (Industrial Animal Agriculture: A Case of Environmental Injustice in NC, USA). Dept. Of Health, Environment and Work (PPGSAT). Universidade Federal da Bahia, May 31, 2019

Panelist. Symposium on Incorporating Environmental Justice into Teaching. School of Forestry and Environmental Sciences, Yale University, New Haven, CT, May 29, 2019

Panelist. Public Health Ethics. Epi and Justice Seminare'n't, Dept. of Epidemiology, UNC, Chapel Hill, April 17, 2019.

Panel Moderator. Demanding Healthy, Safe and Resilient Environments: Utilizing Advocacy in the Environmental Justice Movement Minority Health Conference, Univ. of North Carolina, Chapel Hill, Feb 22, 2019.

Presenter. Greenspaces and PoC Health: Earthseed Land Collective as a model of Black and Brown Land Ownership. Black Communities Conference, Durham, NC, April 25, 2018.

Presenter. Thrown Away: Solid Waste Management and Impacts on Host Communities. Environmental/Occupational Epidemiology Seminar, UNC, Chapel Hill, Feb 23, 2018.

Presenter. Cooperative Land Stewardship. Tools for Preventing Land Loss. North Carolina Environmental Justice Network Summit, Whitakers, NC, USA. Oct 20-21, 2017.

Panel Facilitator. Energy Justice. North Carolina Environmental Justice Network Summit, Whitakers, NC, USA. Oct 21-22, 2016

Panel Organizer. International Solidary within the Environmental Justice Movement, North Carolina, Environmental Network Summit, Whitakers, NC, USA. Oct 16-17, 2015.

Organizer. Seminar Series on Brazil. Marila Carvalho and Rita Franco Rêgo, UNC, Chapel Hill, NC April 2016.

Panelist. Themes on Environmental Justice in Brazil, Universidade da Integração Internacional da Lusofonia Afro-Brasileira, Sao Francisco do Conde, BA Brazil. Nov 2015.

Presentation. Dept of Health, Environment and Work, School of Medicine, Universidade Federal da Bahia, Salvador, Brazil, 2014.

TEACHING

Course Number	Course Title	Credit Hours	Role	Semester Taught & Number of Students
Primary Courses				
ENVR 600	Environmental Health	3	Instructor (100%)	SP24 (n=24), SP22 (n=62), SP21 (n=24), SP20 (n=16), SP19 (n=106), SP18 (n=111), FA17 (n=165), SP17 (n=97), FA16(n=129), SP16 (n=93), FA15 [†] (n=145) SP15 [†] (n=89), FA14 (n=144), SP14(n=119), FA13 (n=188), SP13 (n=170)
ENVR 784	Community-Driven Research and Environmental Justice	2	Co-Instructor (80%)	SP24 (n=20), SP23 (n = 37), SP 22 (n=55), SP21 (n=25), SP20 (n=23), SP19 (n=12), SP18 (n=8), SP17 (n=9)
SPHG 713	Understanding Public Health Issues	2	Co-Instructor (33%)	Residential: FA22 (n=277), FA21 (n=361), FA20 (n=218), FA19 (n=252), FA18 (n=146) Online:
ENVR 610	Global Perspectives on Environmental Health Inequalities	3	Instructor (100%)	FA18 (n=11), FA17 (n=8), SP17 (n=12), FA14 (n =8), FA13 (n=3)
One-time Instruction				
ENVR 698- 001	Undergrad Capstone: Ethics and Environmental Health Interventions	3	Instructor (100%)	SP17 (n=6)
ENVR 992	Environmental Crisis Management	3	Co-Instructor (33%)	SP19 (n=9), SU18 (n =5)
IDST 190- 004	Environment, Intersectionality & SciFi/Fantasy Film & Literature	3	Co-Instructor (33%)	SP19 (n =26)
MED B73 [†]	Special Topics: Global Perspectives in Environmental Health Inequalities (Federal University of Bahia)	3	Co-Instructor (80%)	SP15 (n=9)

Course Guest Lectures

UNC ENVR 400 ESE Seminar (Fry) SP24

UNC EPID 785 Environmental Epidemiology (Larry Engel) SP22, SP21, SP22, SP24

Duke ENVIRON 790.40 Environmental Justice (Sherri White Williamson) SP21, SP 22, SP23

UNC SPHG 600 Introduction to Public Health (Seema Agrawal & Michael Fisher) FA21, SP21

UNC SPHG 690 Exploring Global Health Issues (Greg Bocchino) SP19

NCSU TOX Fundamentals of Toxicology (Seth Kullman) FA18

MENTORING

Dissertation /Thesis Advisor

Sara Rachita MS, ESE (UNC)
 Zahra Al Hamdani PhD, ESE (UNC)
 Charlotte Robbins MSPH, ESE (UNC)

Spring 2025
 Summer 2024
 Spring 2024

Marica Thomas	MS, ESE (UNC)	not completed
Aleah Walsh	MS, ESE (UNC)	Spring 2020
Livia Gonçalves (co-advisor)	MS, PPGSAT (UFBa)	Spring 2017

Faculty Advisor

Rachel Auerbach	MPH, EQUITY (UNC)	Spring 2024
Jennifer Abram	MPH, EQUITY (UNC)	Spring 2024
Ryan Church	MPH, EHS (UNC)	Spring 2024
Annalee Lake	MPH, EHS (UNC)	Spring 2024
Laura Allen	MPH, EHS (UNC)	Spring 2023
Taylor West	MPH, EHS (UNC)	Spring 2023
Katlin Bratt	MPH, EHS (UNC)	Spring 2022
Hannah Bledsoe	MPH, EHS (UNC)	Spring 2022
Stephanie Mar	MPH, ESE (UNC), MCRP	Spring 2022
Anna Liles	MPH, EHS (UNC)	Fall 2021
Omid Barr	MPH, EHS (UNC)	Spring 2021
Cory Cook	MPH, ESE (UNC)	Spring 2020
Rosa Fowler	MPH, ESE (UNC)	Spring 2020
Trey Kanumuambidi	MPH, ESE (UNC)	Spring 2020
Paul Kovach	MPH, ESE (UNC)	Spring 2020
Dashel Nance	MPH, ESE (UNC)	Spring 2020
Eric Witiw	MPH, ESE (UNC)	Spring 2020

Thesis or Dissertation Committee Member

Rebekah Davis	MS, Nat'l Resources (NCSU)	Spring 2025
Amaree Gardner	PhD, ESE (UNC)	Spring 2025
Olivia Harmon	PhD, ESE (UNC)	Spring 2025
Dylan James	MS, ESE (UNC)	Summer 2024
Eric Brown	PhD, ESE (UNC)	Summer 2024
Angela Bittner	MS, ESE (UNC)	Spring 2023
Kristen Viera	MS, Ecology (UNC)	Spring 2023
Mercy Neal	BSPH, ESE (UNC)	Spring 2023
Diamond Holloman	PhD, ENEC (UNC)	Spring 2023
Noemi Gavino-Lopez	MS, ESE (UNC)	Spring 2023
Timothy Purvis	MS, ESE (UNC)	Summer 2022
Adrien Wilkie	PhD, EPID (UNC)	Fall 2021
Riley Mulhern	PhD, ESE (UNC)	Spring 2021
April Desclos	MS, ESE (UNC)	Spring 2021
Frank Stillo, III	PhD, ESE (UNC)	Spring 2019
Erica Wood	MS, ESE	Spring 2019
Blake Fulton	MSPH, ESE (UNC)	Fall 2018
Sarah Long	MS, ESE & DCRP (UNC)	Fall 2018
Yashvi Patel	MSEE, ESE (UNC)	Summer 2018
Lindsay Wickersham	MS, ESE (UNC)	Spring 2018
Allie George	MS, ESE (UNC)	Spring 2018
Chelsea Fizer	MS, ESE (UNC)	Spring 2016
Wendel Viana	MS, PPGSAT (UFBa)	Spring 2015
Juliana Muller	MS, PPGSAT (UFBa)	Spring 2015

Dan Rosenbaum	MS, ESE (UNC)	Spring 2014
Jennifer Casanova	MSPH, ESE(UNC)	Spring 2013

Practicum Advisor

Taylor West	MPH, EHS	2022
Cherrel Manley	MSPH, EPID	2019- 2020
Shelby Rimmler	MS, HBEH	2017-2018
Sarah Shaughnessy	MS, HBEH & PLAN (UNC)	Spring 2017, Summer 2016

Research Assistant, Hourly Student or Independent Study

Anastassis Kiouisis	MPH, EQUITY	Fall 2023
Kristen Viera	MS, Ecology	Spring 2023- Present
Eva Ramirez-Flores	MS, Libr	Spring 2023- Present
Amy Kryston	MPH, GH	Summer 2021-Spring 2023
Caylin Luebeck	MPH, EQUITY	Spring 2022- Spring 2023
Jaishree Gupta	BSPH, ESE	Summer 2021-Fall 2021
Hania Zainab	MS, ESE	Summer 2021-Spring 2022
Elijah Guillett	BS, Public Policy	Spring 2022
Lindsay Savelli	MPH, EQUITY	Fall 2021-Spring 2022
Kaitlin (Bratt) King	MPH, EHS	Spring 2022
Peter Compton	BSPH, ESE	Fall 2020- Present
Ali Zuercher	MPH, EQUITY	Spring 2020- Present
Luke Valmadrid	MPH, EQUITY	2019- 2020
Brandie Banner	MSPH, ESE	Fall 2017, Spring 2018
Nicholas Hastings	BS, AMST	Spring 2017

GRANTS & FUNDING

Not Awarded

US EPA	Obeng-Gyasi (PI) Muhammad, Woods (Co-PIs)	2024-2027
STAR Program	The Enduring Quest for Equity: Unmasking the Cumulative	
Total Award:\$2,000,000	Effects of Environmental Exposures, Stress, and Health Disparities	

NIH PAR-23-112	Woods (Lead PI)	2024-2028
Direct Costs: \$2,340,394	Organizing to Enhance Social Cohesion and Resiliency in	
	Enviromental Justice Communities (OSCR)	

NSF MCA	Haglund (Co-I)	2025-2026
Direct Costs: \$27,997	Law and Social Transformation: The Role of Community-Based	
	Knowledge	

US EPA EJTCTAC	Woods (PI)	2023-2027
Direct Costs:\$8,765,804	From the Ground Up: Growing Rural Community Power	
	for Environmental, Climate, and Energy Justice	

Mosaic Movement Fund	Woods (PI)	2023-2024
Direct Costs, \$156,156	Radically Inclusive, Accessible and Transparent Engagement for	
	Environmental Justice (RadIATE-EJ)	

USDA Solid Waste Management Program Direct Costs: \$317,000	Woods (PI) Mixed- Method Approach to Assessing Exposure Risk from a Large Multi-waste Landfill in NC	2024- 2025
<i>Submitted</i>		
NSF DISES Total: \$749,987	Witter (PI) Grooms, Tuberty, Woods (Co-PIs) The Sources and Impacts of Socio-Environmental Harm and How They Accumulate	
<i>Pending</i>		
NC DOJ EEG Program Total Award: \$54,156	Shoffner (PI); Woods (Co-I) Alamance & Caswell Co. Water Assessment Project (ACCWA)	2024
US EPA G2G Total Award: \$1,000,000	Guidry (Lead) ; Woods (Co-I) Partnership to Address Private Well Contamination in Sampson County	2023-2025
<i>Current</i>		
USEPA STAR Program Subaward: \$ 1,124,999	Pow-Jackson (Lead) Woods (Co-PI) Assessing community impacts of biogas production from industrial hog operations in NC.	2024-2027
Z. Smith Reynolds State-Level Systemic Change Total Award: \$210,000	Woods (PI) Environmental Justice Action Research Clinic	2022-2024
<i>Past</i>		
WRI Total Award: \$10,000	Robbins (PI) Role: Faculty Advisor Leaky Leachate: PFAS Concentrations in Landfill-Impacted Communities in North Carolina	2022-2023
RTI RTI Scholars Program Award:\$72,423	Woods (PI) Rural Water Quality & Risk Perception Near Solid Waste Landfills	2022-2023
UNC CCPS Community Engagement Grant Total Award: \$2500	Luebeck (PI) Role: Faculty Advisor Landscape Analysis of Environmental Justice Organizing and Advocacy in North Carolina	2022-2023
UNC CEHS EJ Planning Grant Total Award: \$5000	Woods (PI) Assessing How Measured and Perceived Water Quality Influence Water Use Among Private Well Owners in Sampson Co.	2022-2023

Z. Smith Reynolds State-Level Systemic Change Total Award: \$70,000	Woods (PI) Environmental Justice Action Research Clinic	2020-2021
Inst. for the Studies of the Americas Total Award \$300	Woods (PI)	2019
Carolina Center for Public Service Community Engagement Fellowship Total Award: \$2000	Walsh (PI)	2019
UNC Carolina Cntr for Public Service Thorp Engaged Scholar Total Award: \$10,000	Woods (PI)	2018-2020
NC AHEC Total Award: \$40,000	Woods (PI) Enhancing Health Equity in Public Health Education and Practice	2019
Schmidt Family Foundation 11 th Hr Project Total Award: \$37,120	Woods (PI)	2017-2018
Fogarty Global Health Program Total Award: \$76,510	Woods (PI) Uncovering Petrogenic Pollutants in Brazil by Air Monitoring and Health Impact Assessment (UPPBAHIA)	2014-2017
Fulbright Commission Fulbright-Brazil Scientific Mobility Total Award: \$27,250	Woods (PI)	2014-2015
UNC Center for Faculty Excellence Total Award: \$5000	Woods (PI) Support for a Graduate Teaching Fellow to support ENVR 600	2014
UNC Center for Faculty Excellence Engaging Students in Large Classes Total Award: \$5000	Woods (PI)	2013
NIH (F31 ES013342) Total Award: \$93,945	Woods (PI) Peroxisome Proliferator-Induced DNA Damage and Repair	2004-2007
<i>Not Awarded</i>		
USEPA EJCPS Total: \$490,302	Cuello (PI) North Carolina Community Leadership Initiative: Mobilizing for Agricultural Transformation and Empowerment (NC CLIMATE)	2024-2026

NSF Midcareer Award Subaward: \$30,329	Haglund (PI) Law and Social Transformation: The Role of Community-Based Knowledge	2023-2026
NIH Total Award: \$2,998,584	Woods (PI) Organizing to Enhance Social Cohesion and Resiliency in Environmental Justice Communities	2024-2028
USDA Solid Waste Mgmt Program Total Requested:\$430,185	Woods (PI) Mixed-method approach to assessing exposure risks from a large multi-waste landfill in NC	2023-2024

PROFESSIONAL SERVICE

State of NC and Scientific Community and Professional Organizations

External Reviewer, Assistant to Associate Prof. Promotion	Feb 2024
Member, NC Governor's Advisory Council on Environmental Justice	2023-2024
Member, USEPA Board of Scientific Counselors, Social & Community Science Committee	2023-Present
Member, Advisory Board, NCCU NSF-funded Research for Social Justice Broadening Participation through Data Science	2020- 2023
Guest Editor, Issue on Environmental Racism and Black Territories of the World for the Magazine of the Association of Black Brazilian Researchers (ABPN)	2022
Member, Community Advisory Board for Duke University Superfund Research Program	2020-2022
Reviewer, NIOSH Training Grant (T03) Program	2018
Ad hoc Reviewer Environmental Science and Technology New Solutions Environmental Justice Toxicology and Applied Pharmacology Journal Oxidative Medicine and Cellular Longevity Drug and Chemical Toxicology Journal Toxicological Sciences Journal	
Postdoc Representative, Mechanisms Specialty Section, Society of Toxicology	2008-2009
President, PostDocs and Graduate Students (PDoGS) Organization, Hamner Institutes	2008-2009

University

Member, 5-year Review Committee of Carolina Center for Public Service	2020
Awards Reviewer, Carolina Center for Public Service Faculty Awards	2019
Grant Reviewer, Carolina Center for Public Service Disasters Relief Fund	2019
Member, UNC Committee for Women and Minority Student Recruitment & Retention	2006

Gillings School of Public Health

Member, ESE Chair Search Committee	Mar 2024- Present
Member, MPH Steering Committee	Jan 2019 – Present
Member, ESE Academic Programs Committee	2012-Present
Internal Reviewer of Teaching, Gillings Faculty Asst. to Assoc. Promotion	Nov 2023
Member, Research Strategic Plan Taskforce	Mar 2023- Dec 2023
Member, Cluster Hire Committee	Jan 2023- May 2023

Chair, MPH Admissions Committee	2017-2022
Member, Practice Strategic Plan Taskforce	Oct 2021 – May 2022
Member, Mental Health Taskforce	Dec 2021-Feb 2022
Chair, Subcommittee for MPH Application Question and Rubric	July – Aug 2020
Member, MPH Practicum Subcommittee	Nov 2017 - 2019
Member, Workforce Development Taskforce	2017- 2019
Member, Applied Practice Experience & Integrated Learning Experience Subcommittee	2018-2019
Member, National Health Equity Research Webcast Planning Committee	2018
Member, MPH Core Implementation & Development Committees	2016- 2018
Advisory Board Member, ECHO Health Disparities Certificate Program	2013-2018
Co-advisor, GlobeMED Student group	2013-2014
Member, Advisory Committee for Summer Fellowship Programs	2012-2014

PROFESSIONAL MEMBERSHIPS

Society for Community Research and Action	2022- Present
International Society of Exposure Science	2022 - Present
International Society of Environmental Epidemiology (ISEE)	2023, 2014-2016
Society of Risk Analysis (SRA)	2016-2017
Society of Toxicology (SOT)	2004-2014

Local Community

Volunteer, Durham Parks and Recreation	2017- present
Founding Member, Earthseed Land Cooperative	2012- present
Board of Directors (2013-2019) & Planning Cmte (2010-2013), NC Envr. Justice Network	2010- 2020
Trainer, Grupo Nzinga de Capoeira Angola-Durham	2019- present

LANGUAGES

English: native language
Portuguese: intermediate (speaking, reading, writing, comprehension)