# 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<br>University of North Carolina at Chapel Hill | 2007 |
| M.S. | Chemical Engineering<br>Georgia Institute of Technology | 2003 |
| B.S. | Chemical Engineering, minor in Materials Science & Engineering<br>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-Lead, 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

| | |
|---|---|
| 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.

***Manuscripts In Preparation***

Original Article: Woods, CG*, Holloman, D, Stroman, D, Eng, E, Merino, Y. Cipriani, K. Racial Equity Training for Public Health Students, Faculty and Professionals Can Enhance Understanding of Structural Bias and Racial Health Disparities. Proposed Journal: *American Journal of Public Health*

Original Article: Rimmler, S., Shaughnessy, S, Tatum, E., Muhammad, N, Woods, CG*. Perceptions of Health and Quality of Life Associated with Landfill Proximity: A Community-Based Participatory Photovoice Project. Proposed Journal:*Int J Environ Res Public Health*.

***Manuscripts Submitted***

Souto, ARR, Whitman, S, Ruiz, N, Zuercher, A, Price, B, Holland, E, Ritche, C, Eng, E, Woods, CG*. Committing to an Antiracism Praxis in MPH Training. *Public Health Reports*

Walsh, A, Cable, P, Woods, CG*. Presence of Perfluoroalkyl Substances in Landfill-Adjacent Surface Waters in North Carolina. *Environmental Research*

***Refereed Articles*** *Corresponding Author

32. Wilkie AA, Richrdson, DB, Luben, TJ, Serre, ML, Woods, CG, Daniels, JL. Carolina's Changing Energy Generation Profile and Reductions in Key Air Pollutants, 2000-2019. 2022. *NCMJ*. 2022. Accepted.

31. McMullen, PD, Bhattacharya, S, Woods, CW, Pendse SN, McBride, MT, LeCluyse, EL, Clewell, RA, Melvin E. Andersen, ME. Identifying qualitative differences in PPARα signaling networks in human and rat hepatocytes and their significance for next generation chemical risk assessment methods. *Toxicology In Vitro*. 2020; 64: 104463

30.Couto, MCBM, Falcão, IR, Müller JDS, Alves, JB, Viana,WS, Lima, VMC, Pena, PGL, Woods, CG, Rego, RF. Prevalence and work-related factors associated with lower back musculoskeletal disorders in female shellfish gatherers in Saubara, Bahia – Brazil. *IJERPH*. 2019;16(5): 857

29. Guidry, VT, Rhodes, SM, Woods, CG*, Hall, DJ, Rinsky, JL. Connecting Environmental Justice and Community Health Effects of Hog Production in North Carolina. *NCMJ*. 2018;79 (5): 324-328.

28. Müller JDS, Falcão IR, Couto MCBM, Viana WDS, Alves IB, Viola DN, Woods CG, Rêgo RCF.Artisanal fisherwomen/shellfish gatherers: analyzing the impact of upper limb functioning and disability on health-related quality of life.Cien Saude Colet. 2017; 22(11):3635-3644.

27. Müller JDS, Falcão IR, Couto MC, Viana WDS, Alves IB, Viola DN, Woods CG, Rêgo RCF. Health-Related Quality of Life among Artisanal Fisherwomen/Shellfish Gatherers: Lower than the General Population. *Int J Environ Res Public Health*. 2016;13(5).

26. McMullen PD, Bhattacharya S, Woods CG, Sun B, Ross, SM, Miller ME, McBride M, LeCluyse, EL, Clewell RA, Andersen, ME. A map of the PPARα transcription regulatory network for primary human hepatocytes. *Chemico-Biological Interactions*. 2014 Feb; 209:14-24.

25. Fu J, Zhang Q, Woods CG, Zheng H, Yang B, Qu W, Andersen ME, Pi J. 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*. 2013 Sep;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. Adipose deficiency of Nrf2 in ob/ob mice results in sever metabolic syndrome. *Diabetes*. 2013 Mar;62(3):845-54.

23. Hou Y, Xue P, Woods CG, Wang X, Fu J, Yarborough , Qu W, Zhang Q, Andersen ME, Pi J. Association between arsenic suppression of adipogenesis and induction of CHOP10 via the endoplasmic reticulum stress response. *Environ Health Perspect*. 2013 Feb; 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. Modeling drug- and chemical- induced hepatotoxicity with systems biology approaches. *Front Physiol*.2013 Dec; 3:462.

21. Yang B, Fu J, Zheng H, Xue P, Yarborough K, Woods CG, Hou Y, Zhang Q, Andersen ME, Pi J. Deficiency in the nuclear factor E2-related factor 2 renders pancreatic β-cells vulnerable to arsenic-induced cell damage. *Toxicol Appl Pharmacol*. 2012 Nov; 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. Regulatory role of KEAP1 and NRF2 in PPARγ expression and chemoresistance in human non-small-cell lung carcinoma cells. *Free Radic Biol Med*. 2012 Aug;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.Cross-regulations among NRFs and KEAP1 and effects of their silencing on arsenic-induced antioxidant response and cytotoxicity in human keratinocytes. *Environ Health Perspect*. 2012 Apr;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. Nuclear factor erythroid-derived factor 2-related factor 2 regulates transcription of CCAAT/enhancer-binding protein β during adipogenesis. *Free Radic Biol Med*. 2012 Jan 15;52(2):462-72.

17. Xue P, Hou Y, Zhang Q, Woods CG, Yarborough K, Liu H, Sun G, Andersen ME, Pi J. 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*. 2011 Apr 8;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. Long isoforms of NRF1 contribute to arsenic-induced antioxidant response in human keratinocytes. *Environ Health Perspect*. 2011 Jan;119(1):56-62.

15. Fu J, Woods CG, Yehuda-Shnaidman E, Zhang Q, Wong V, Collins S, Sun G, Andersen ME, Pi J. Low-level arsenic impairs glucose-stimulated insulin secretion in pancreatic beta cells: involvement of cellular adaptive response to oxidative stress. *Environ Health Perspect*. 2010 Jun;118(6):864-70.

14**.** Zhang Q, Pi J, Woods CG, Andersen ME. A systems biology perspective on Nrf2-mediated antioxidant response. *Toxicol Appl Pharmacol*. 2010 Apr 1;244(1):84-97.

13. Pi J, Zhang Q, Fu J, Woods CG, Hou Y, Corkey BE, Collins S, Andersen ME. ROS signaling, oxidative stress and Nrf2 in pancreatic beta-cell function. Toxicol Appl Pharmacol. 2010 Apr 1;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. Dose-dependent transitions in Nrf2-mediated adaptive response and related stress responses to hypochlorous acid in mouse macrophages. *Toxicol Appl Pharm.* 2009; 238(1):27-36.

11. Zhang Q, Pi J, Woods CG, Andersen ME. Phase I and II cross-induction of xenobiotic metabolizing enzymes: a feedforward control mechanism for potential hormetic responses. *Toxicol Appl Pharm*. 2009; 237 (3) 345–356.

10. Ross PK, Woods CG, Bradford BU, Koysk O, Gatti DM, Cunningham ML, Rusyn I. Time course comparison of xenobiotic activators of CAR and PPARα in mouse liver . *Toxicol Appl Pharm.* 2009; 235(2):199-207.

9. Zhang Q, Pi J, Woods CG, Jarabek AM, Clewell HJ, Andersen ME. Hormesis and adaptive cellular control systems. *Dose Response*. 2008; 6(2) 196-208.

8. Pi J, Zhang Q, Woods CG, Wong V, Collins S, Andersen ME. Activation of Nrf2-mediated oxidative stress response in macrophages by hypochlorous acid. *Toxicol Appl Pharm.* 2008; 226(3) 236-43.

7. Woods CG, Kosyk O, Bradford BU, Ross PK, Quo P, Ibrahim JG, Cunningham ML, Rusyn I. Time-course investigation of PPARα- and Kupffer cell-dependent effects of WY-14,643 in mouse liver using microarray gene expression (2007). *Toxicol Appl Pharm.* 2007; 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 Multi-Center Study of Acetaminophen Hepatotoxicity Reveals the Importance of Biological Endpoints in Genomic Analyses. *Toxicol Sci.* 2007; 99(1):326-37.

5. Porgribny IP, Tryndyak VP, Woods CG, Wiit SE, Rusyn I. 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.* 2007; 625(1-2):62-71

4. Woods CG, Burns AM, Bradford BU, Ross PK, Kosyk O, Swenberg JA, Cunningham ML, Holland, SM, Rusyn I. WY-14,643-induced cell proliferation and oxidative stress in mouse liver are independent of NADPH oxidase. *Toxicol. Sci.* 2007; 98(2):366-74.

3. Woods CG, Vanden Heuval JP, Rusyn I. 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-butylnitrone radical adducts in mouse liver by peroxisome proliferators is dependent upon peroxisome proliferator activated receptor-alpha, but not NADPH oxidase. *Free Radic Biol Med*. 2007; 42(3):335-42.

1. Kono H, Woods CG, Maki A, Connor H, Mason R, Rusyn I, Fujii H. 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.* 2007; 40(6):579-88.

**KEY REFEREED ABSTRACTS** *Contributions to over 40 conference abstracts*

Presence of Perfluoroalkyl Substances in Landfill-Adjacent Surface Waters. International Society of Environmental Epidemiology 32nd Annual Conference, Virtual (2020); *Co-Author*

Establishing Equitable Partnerships in Community-based Environmental Justice Research, International Society of Environmental Epidemiology 27th Annual Conference, São Paulo, Brazil (2015); *Symposium Chair*

Constructing a PPARα-mediated Transcriptional Network in Primary Human and Rat Hepatocytes. Society of Toxicology 50th Annual Meeting, Washington, DC (2011)

Organizing a PPARα- 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 48th Annual Meeting, Baltimore, MD (2009)

Regulatory mechanis of Nrf2 activation by hypochlorous acid and concomitant activation of inflammatory pathways. Society of Toxicology 47th 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 45th 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**

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.

Guest Lecturer.Thrown Away: Solid Waste Management and Impacts on Host Communities. Nicholas School for the Environment. Environmental Justice Course ENVIRON 790-04. January 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 Colloqium. November 1, 2019.

Panelist. Climate Justice. Forum for Scholars and Publics at Duke University, September12, 2019.

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

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

Presenter. Agricultura Animal Indústrial: 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 Seminaren't, Dept. of Epidemiology, UNC, Chapel Hill, April 17, 2019.

Panel Facilitator. 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.

Orgainizer. 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 Medicane, 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%) | 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 (70%) | 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 (50%) | FA21 (n=361), FA20 (n=218), FA19 (n=252), FA18 (n=146) |
| 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) |

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| 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) |

***Guest Lectures***
EPID 785 Environmental Epidemiology (Larry Engel) SP22, SP21
SPHG 600 Introduction to Public Health (Seema Agrawal & Michael Fisher) FA21, SP21
SPHG 690 Exploring Global Health Issues (Greg Bocchino) SP19
NCSU TOX Fundamentals of Toxicology (Seth Kullman) FA18

**MENTORING**

***Thesis Advisor***

| | | |
|---|---|---|
| Marica Thomas | MS, ESE (UNC) | anticipated Spring 2023 |
| Aleah Walsh | MS, ESE (UNC) | Spring 2020 |
| Lívia Gonçalves (co-advisor) | MS, PPGSAT (UFBa) | Spring 2017 |

***Faculty Advisor***

| | | |
|---|---|---|
| Laura Allen | MPH, ESE (UNC) | Spring 2023 |
| Taylor West | MPH, ESE (UNC) | Spring 2023 |
| Katlin Bratt | MPH, ESE (UNC) | Spring 2022 |
| Hannah Bledsoe | MPH, ESE (UNC) | Spring 2022 |
| Stephanie Mar | MPH, ESE (UNC), MCRP | Spring 2022 |
| Anna Liles | MPH, ESE (UNC) | Fall 2021 |
| Omid Barr | MPH, ESE (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 |

***Committee Member***

| | | |
|---|---|---|
| Eric Brown | PhD, ESE (UNC) | anticipated Spring 2026 |
| Zahra Al Hamdani | PhD, ESE (UNC) | anticipated Spring 2023 |
| Diamond Holloman | PhD, ENEC (UNC) | ancipated Spring 2023 |
| Timothy Purvis | MS, ESE (UNC) | anticipated 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 |

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|---|---|---|
| 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***

| | | |
|---|---|---|
| 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***

| | | |
|---|---|---|
| Caylin Luebeck | MPH, EQIUTY | Sprin 2022- Present |
| Jaishree Gupta | BSPH, ESE | Summer 2021- Present |
| Amy Kryston | MPH, GH | Summer 2021-Present |
| 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**

***Submitted***

| | | |
|---|---|---|
| USEPA | Lee Pow Jackson (Co-PI) | 2022-2025 |
| STAR Program | Project Title: Assessing community impacts of biogas production | |
| Direct Costs (to UNC): 203,493 | from industrial hog operations in NC. | |

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|---|---|---|
| Research Triangle Institute (RTI) | Woods (PI) | 2022-2023 |
| RTI Scholars Program | Project Title: Rural Water Quality and Risk Perception Near Solid | |
| Direct Costs:$72,423 | Waste Landfills | |

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| Water Resources Research Institute (WRRI) | Woods (Co-PI) | 2022-2023 |
| Collaborative Research Grant | Project Title: Emerging Water Contaminants and Perception of | |
| Direct Costs: $24,924 | Risk | |

***Current***

| | | |
|---|---|---|
| Carolina Center for Public Service (CCPS) | Luebeck (PI) | 2022-2023 |
| Community Engagement Grant | Project Title: Landscape Analysis of Environmental Justice | |
| Direct Costs: $2500 | Organizing and Advocacy in North Carolina | |

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| UNC Center for Health and Susceptibility (CEHS) | Woods (Co-PI) | 2022-2023 |
| EJ Planning Grant | Project Title: Assessing How Measured and Perceived Water | |
| Direct Costs: $5000 | Quality Influence Water Use Among Private Well Owners in | |

Sampson Co.

Z. Smith Reynolds Woods (PI) 2022-2024
State-Level Systemic Change Project Title: Environmental Justice Action Research Clinic
Direct Costs: $210,000

***Past***

Z. Smith Reynolds Woods (PI) 2020-2021
State-Level Systemic Change Project Title: Environmental Justice Action Research Clinic
Direct Costs: $70,000

Institute for the Studies of the Americas Woods 2019
Seminar Speaker Request for Dr. Paula Barreto
Direct Costs $300

UNC Carolina Center for Public Service Walsh (PI) 2019
Community Engagement Fellowship
Direct Costs: $2000

UNC Carolina Center for Public Service Woods (PI) 2018-2020
Thorp Engaged Scholar
Direct Costs $10,000

NC Area Health Education Centers (NC AHEC) Woods (PI)
Enhancing Health Equity in Public Health Education and Practice 2018-2019
Direct Costs: $40,000

Schmidt Family Foundation Woods (PI) 2017-2018
11th Hr Project Student Fellowship –Adrien Wilkie
Direct Costs: $37,120

UJMT Fogarty Global Health Program Woods (PI) 2014-2017
Uncovering Petrogenic Pollutants in Brazil by Air Monitoring and Health Impact Assessment (UPPBAHIA)
Direct Costs: $76,510

Fulbright Commission Woods (PI) 2014-2015
Fulbright-Brazil Scientific Mobility
Total Direct Cost: $27,250

UNC Center for Faculty Excellence Woods (PI) 2014
Support for a Graduate Teaching Fellow to support ENVR 600
Total Direct Cost: $5000

UNC Center for Faculty Excellence Woods (PI) 2013
CFE 100+ Initiative: Engaging Students in Large Classes
Total Direct Cost: $5000

NIEHS ( F31 ES013342) Woods (PI) 2004-2007
Peroxisome Proliferator-Induced DNA Damage and Repair
Total Direct Cost: $93,945

**SERVICE**

***Scientific Community and Professional Organizations***

Member, Community Advisory Board for Duke University Superfund Research Program 2020-Present
Member, Advisory Board, NCCU NSF-funded Research for Social Justice Broadening Participation through Data Science 2020- Present
NIOSH Training Grant Program Review Panel 2018
Ad hoc Reviewer
- 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***

MPH Steering Committee Jan 2019 – Present
Practice Strategic PlanTaskforce Oct 2021 – May 2022
Mental Health Taskforce Dec 2021-Feb 2022
Chair, Subcommittee for MPH Application Question and Rubric July – Aug 2020
MPH Practicum Subcommittee Nov 2017 - 2019
Workforce Development 2017- 2019
Applied Practice Experience and Integraged Learning Experience Subcommittee 2018-2019
National Health Equity Research Webcast 2018
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

***Environmental Sciences and Engineering Department***

Chair, MPH Admissions Committee 2017-Present
Member, ESE Academic Programs Committee 2012-Present

**PROFESSIONAL MEMBERSHIPS**

International Society of Environmental Epidemiology (ISEE) 2014-2016
Society of Risk Analysis (SRA) 2016-2017

Society of Toxicology (SOT) 2004-2014

***Local Community***

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

**LANGUAGES**

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