Corinne Wiesner

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Education

† *Indicates expected*

2016–2021†	Ph.D., Environmental Sciences and Engineering, Gillings School of Global Public Health, University of North Carolina Chapel Hill
	Dissertation (Tentative Title): Find, Inform, and Test (FIT): a spatial modeling framework to estimate contributions of spatially distributed sources to microbial contaminants in the environment
	Advisors: Dr. Marc Serre and Dr. Jill Stewart
2010–2014	B.A., Economics, Beloit College

Experience

2020–present	Research Assistant for NC Wastewater Pathogen Research Surveillance Network: epidemiology and spatial analysis	UNC-Chapel Hill
2018–present	Research Assistant for Post-Hurricane Florence	UNC-Chapel Hill
2018–2020	Visiting Researcher: spatial modeling of microbial contamination for rural Wisconsin river network	Marquette University
2017–2019	Research Assistant for NSF Ecology and Evolution of Infectious Disease (EEID) Program. ”The impact of intensive livestock production on the disease ecology of antibiotic resistant Staphylococcus aureus”	UNC-Chapel Hill
2015–2016	AmeriCorps ™ Community HealthCorps Member in Environmental Health Department	SSCHC
2011	Laboratory Summer Intern	CEREGE

Teaching Experience

2018	Invited Guest Lecturer (ENVR 765), Lecture Title: Land use regression modeling of microbial contamination and antimicrobial resistance	UNC-Chapel Hill
2018	Invited Guest Lecturer (ENVR 468), Lecture Title: Maximum Entropy processing of general knowledge and Bayesian epistemic processing of site-specific knowledge	UNC-Chapel Hill
2018	Invited Guest Lecturer (ENVR 468), Lecture Title: Introduction to random variables and a little measure theory for geostatistics	UNC-Chapel Hill
2016–2017	Teaching Assistant (ENVR 600)	UNC-Chapel Hill
2014-2015	High School Substitute Teacher	School District of Beloit

Mentoring

2018–2019	Katie McQuillan, Computer Science Major	UNC-Chapel Hill
2018–2019	Elijah Urquhart, Biology Major	UNC-Chapel Hill
2018–2019	Abby Hudspeth, Environmental Science Major/ Geography Minor	UNC-Chapel Hill
2018	Taylor Franklin, Environmental Health Science Major	UNC-Chapel Hill
2018	Wyatt Schug, Chemistry Major	UNC-Chapel Hill

Selected Honors and Awards

2017-present	T32 NIEHS Predoctoral Trainee, Biostatistics for Research in Environmental Health, Gillings School of Global Public Health	UNC-Chapel Hill
2016–2017	Gillings Merit Scholar, Gillings School of Global Public Health	UNC-Chapel Hill
2010–2014	Chapin Presidential Scholarship	Beloit College

Publications

Journals

[1] **Wiesner, C**., Beattie, R., Stewart, J., Hristova, K., Serre, M., The microbial Find, Inform, and Test (FIT) model for identifying spatially distributed contamination sources: Framework foundation, application to ruminant *Bacteroides* in river sediment from Wisconsin. (Draft for publication expected 2020, Target Journal: Environmental Science and Technology)

[2] Rhodes, S., Sexton, K., Blackwood, A.D., **Wiesner, C.**, Davis, M., Noble, R., Heaney, C., Stewart, J., Rule, A. A field evaluation of air sampling methods for the quantification of antibiotic-resistant Staphylococcus aureus and Pig-2-Bac on industrial and antibiotic-free hog operations. (Draft for publication expected 2020, Target Journal: Environmental Science and Technology)

Conferences

[1] **C Wiesner**, R Beattie, J Stewart, K Hristova, ML Serre. The Role of Wetlands as Attenuating Factors to Fecal Contamination in Wisconsin Rivers, ASM Microbe 2020. June 18-22, Chicago, IL, abstract accepted for poster presentation.

[2] C Coleman (Presenter) & R Noble & J Stewart & Stewart Lab: E Christenson-Diver, A Grube, D Holcomb, K Kochek, N Kothegal, C LaMontagne, **C Wiesner**. Salmonella and other pathogens (Campylobacter, phages), NC Water Resources Research Institute 2020. March 18-19, Raleigh, NC, oral Presentation, Unable to deliver, meeting canceled due to COVID-19.

[3] E Christenson-Diver (Presenter) & Stewart Lab: C Coleman, A Grube, D Holcomb, K Kochek, N Kothegal, C LaMontagne, **C Wiesner**, L Wickersham. Longitudinal pre vs. post Hurricane Florence sampling, NC Water Resources Research Institute 2020. March 18-19, Raleigh, NC, oral Presentation, Unable to deliver, meeting canceled due to COVID-19.

[4] **C Wiesner**, R Beattie, J Stewart, K Hristova, ML Serre. Land-use Impacts the Flow of Antibiotic Resistance Genes in Recreational Surface Waters, Epidemics7, Charleston, SC, December 5, 2019, poster presentation.

[5] N Pisanic (Presenter), C Ordak, A Corrigan, F Curriero, V Coffman, S Rhodes, **C Wiesner**, ML Serre, J Stewart, D Hall, CD Heaney, North Carolina, USA, Environmental Justice Summit, October 18-19, 2019, Whitakers, NC, USA, poster presentation.

[6] V Coffman (Presenter), D Hall, N Pisanic, **C Wiesner**, S Rogers, A Rule, M McCormack, M Diener-West, M Davis, C Heaney, Piloting the use of mobile devices, environmental swabs, and novel air samplers in community-driven research to assess occupation and environmental exposures from industrial hog operations in rural eastern North Carolina, USA International Society for Environmental Epidemiology: On Airs, Waters, Places, Utrecht, Netherlands, August 25-28, 2019, Utrecht, Netherlands, oral presentation.

[7] S Rhodes, K Sexton, D Blackwood, R Noble, J Stewart, **C Wiesner**, J Larsen, A Wright, S Blacklin, W Flowers, N Pisanic, M Davis, C Heaney, A Rule (Presenter), Evaluation of Air Sampling Methods to Assess Pathogen Contamination in Agricultural Animal Environments as part of a One Health approach, International Societies of Exposure Science (ISES), August 18-22, 2019, Kaunas, Lithuania, oral presentation.

[8] **C Wiesner**, R Beattie, J Stewart, K Hristova, ML Serre. Space/Time Variability of Antibiotic Resistance Genes in Wisconsin Rivers/Streams, UNC Water Microbiology Conference, Chapel Hill, NC, May 14, 2019, poster presentation.

Service

- Reviewer, Environmental Science and Technology, 2020.

References

- Dr. Marc Serre (marc_serre@unc.edu)
- Dr. Jill Stewart (jill.stewart@unc.edu)
- Others available on request.