

► Claire Dust

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Education

MSPH, Environmental Sciences and Engineering

- University of North Carolina – Chapel Hill, Anticipating Graduation 2021

BS, Integrative Biology Honors and Chemistry

- University of Illinois at Urbana-Champaign, 2019

Graduate Work

Teaching Assistant (August – December 2019)

Department of Environmental Sciences and Engineering, University of North Carolina – CH
ENVR 468 - Temporal GIS and Space/Time Geostatistics for the Environment and Public Health, Marc Serre

Graduate Researcher (August 2019 – present)

Department of Environmental Sciences and Engineering, University of North Carolina – CH
Principal Investigator: Dr. Marc Serre, MS PhD

- Performing a space/time mapping analysis of water quality data pertaining to fecal microbes, specifically coliforms and coliphages across North Carolina
- Eventually perform a land use regression/Bayesian Maximum Entropy analysis to obtain space/time estimates of fecal microbes in private wells in relation to flood plains, sewage treatment, and concentrated animal feeding operations (CAFOs)

Undergraduate Work

Independent Researcher (June 2017 –May 2019)

Department of Entomology, University of Illinois at Urbana-Champaign

Principal Investigator: Dr. Brian Allan, PhD, and Allison Parker, MS PhD

- Developed a novel technique to determine differential hatch rates in Asian tiger mosquito eggs due to bacterial species composition of inoculum
- Successfully observed significant differences in egg hatching due to inoculation with different bacterial species

Research Assistant (January 2017 –May 2017)

Department of Entomology, University of Illinois at Urbana-Champaign

Principal Investigator: Dr. Allison K. Hansen, PhD

- Developed a novel functional genomics technique in aphids that uses CRISPR/Cas-9 technology
- Successfully silenced *tor* gene and observed phenotypic alteration in population of aphids

Awards and Recognition

▶ **Dean's List Fall 2015 – Spring 2019**

Awarded to students whose GPA rank in the top 20% in the College of Liberal Arts and Sciences each semester (students must take a minimum of 14 credit hours per semester to qualify)

▶ **Sharon Gray Memorial Award Spring 2018**

Awarded to a mentor-mentee team of women in science who show interest in furthering their education through research, conferences, workshops, or leadership meetings

Grants

The National Institute for Occupational Safety and Health (NIOSH) Training Grant January 2020

Illinois Water Resources Center Annual Small Grant (\$10,000) December 2017

Presentations

- ▶ 10-minute Undergraduate Talk - 2018 ESA, ESC, and ESBC Joint Annual Meeting (Entomology 2018), Vancouver, BC November 2018

Skills

Computer

Microsoft Word, PowerPoint, Excel, MEGA, ChromasPro, R (programming language) (introductory), Stata, MATLAB (introductory)

Languages

English (native), Spanish (intermediate)