

# Richard Strott

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## EDUCATION

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**University of North Carolina, Chapel Hill - Gillings School of Global Public Health**

**May 2021 (Expected)**

*Master of Science, Environmental Engineering*

- NIOSH Traineeship Recipient (2020), Baity Scholarship Recipient (2019), and Hazen Award Recipient (2019)

**University of Georgia - College of Engineering**

**May 2019**

*Bachelor of Science, Environmental Engineering*

## WORK EXPERIENCE

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**Teaching Assistantship – Advanced Functions of Temporal GIS**

**August 2020 – Present**

*Student Teaching Assistant*

- Assisting professor with implementation of course curriculum.
- Serving as an additional point of contact for students seeking consultation related to course curriculum.

**All Phase Environmental**

**October 2016 – June 2017**

*Student Intern*

- Gained first-hand environmental consulting experience.
- Worked primarily on drafting; gained exposure to the different Phase I, II, and III environmental assessments.

## PROJECTS

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**Spatiotemporal Statistical Modeling – Air Quality**

Currently working on integrated research project involving air quality modeling. Project utilizes Bayesian Maximum Entropy method of geostatistics to predict air quality across areas of interest using MATLAB, ArcGIS, and BMEGUI.

**North Carolina Wastewater Pathogen Research Surveillance Network**

Currently collaborating with a team of cross-university and state researchers to predict COVID-19 outbreaks by analyzing viral RNA loads found in wastewater. Primary tasks included disease mapping of COVID-19 using Bayesian Maximum Entropy method of geostatistics and building predictive model for sewershed pipe flows based on collected parcel data.

**City of Johns Creek – Old Alabama Road Extension to State Bridge Road via Tunnel**

An integrated project with the city of Johns Creek, GA to solve a traffic problem with a tunnel road extension. Project deliverables included multiple route solutions, concept drawings, cost estimates, and traffic control plans.

**Water Wheel Design Without Modern Technology**

Group project working to determine feasibility of a “pre-industrial” waterwheel design using materials in Georgia's Piedmont region to produce 4 kW of power output.

## EXTRACURRICULAR ACTIVITIES

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**ENVRSO Board**

**July 2020 – Present**

*President*

- Coordinating with other board members to plan social and volunteer events for students in the department of environmental sciences and engineering.
- Serving as liaison between faculty and students and assist in fundraising efforts for the organization.

## **RELEVANT COURSEWORK**

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### **University of North Carolina at Chapel Hill**

- Aerosol Physics and Chemistry (ENVR 416)
- EPID for Environmental Scientists and Engineers (ENVR 601)
- Chemical Equilibria of Natural Water (ENVR 419)
- Managing Environmental Financial Risk (ENVR 788)
- Advanced Functions of Temporal GIS (ENVR 468)
- Space/Time Exposure Mapping & Risk Assessment (ENVR 765)

### **University of Georgia**

- Environmental Engineering Design Methodology (ENVE 2920)
- Energy in Nature (ENVE 4230)
- Energy Systems and the Environment (ENVE 4250)
- Environmental Chemistry (EHSC 4350)
- Environmental Life Cycle Analysis (ENVE 4550)

## **TECHNICAL SKILLS**

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MATLAB • AutoCAD • ArcGIS