

# Xiaojing Ni, Data Scientist

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## LINKS

[LinkedIn](#), [Google Scholar](#), [Data Science Portfolio](#)

## PROFILE

Add Section

## SKILLS

Python	Amazon AWS
R	GIS
SQL	Git
Machine Learning	Apache Spark
HTML & CSS	Tableau

## PROFESSIONAL EXPERIENCE

Jan 2023 — Present

### Research Assistant, Georgetown University

Washington, DC

- Created a GitHub repository classifier by harnessing NLP and text analysis techniques on README files. This project showcases my proficiency in advanced data science methodologies, specifically in the areas of NLP and text analysis, and highlights my ability to develop effective solutions for complex problems.
- Analyzed how AI systems are being evaluated for common principles, such as explainability and interpretability of recommendation systems.
- Reading AI research papers and studying the evaluation approaches and benchmarks used in these papers, which helps decision-makers with data-driven analysis on the security implications of emerging technologies.

Aug 2021 — Present

### Data Science Projects, Georgetown University

Washington, DC

- Applying machine learning techniques including supervised and unsupervised learning, such as decision tree, support vector machines, and clustering on text, categorical, and numerical data to provide insights into the U.S. real estate market.
- Applying statistical methods (e.g. linear regression, t-test, Chi-squared) and hypothesis testing to explore the relationship between company properties (e.g. rankings) and their Facebook advertising spending.
- Unsupervised analysis of text data of military subcontractors as potential targets of foreign hackers and using visualizations to conduct a website presenting the story.
- Big data analysis, e.g. NLP and ML, on Reddit text data using cloud and cluster computing to answer business questions, such as what makes the submission popular?

Nov 2018 — Nov 2019

### Post-doctoral Fellow , Office of Research and Development, U.S. Environmental Protection Agency

Durham, NC

- Statistical analysis and Meta-analysis of dissolved reactive phosphorus load from agricultural fields from 9 literature in the Great Lakes Basin.
- Published journal article on Science of the Total Environment (impact factor of 7.96).
- Collaborating with GRIP-E project with other 32 researchers in Canada and the U.S. simulating stream flow at 46 calibration and seven independent validation stations.

Aug 2014 — Aug 2018

### Graduate Research Assistant , Department of Agricultural and Biological Engineering, Mississippi State University

Mississippi State, MS

- Spatial data and satellite imagery analysis focused on Geographic Information System.
- Emphasis on water quality and hydrological modeling of agricultural watersheds using both process-based model (e.g. SWAT, MODFLOW) and statistical methods (e.g. Kriging).
- Presenting at professional conferences.
- Published 4 journal articles on 4 different studies.

## EDUCATION

Aug 2021 — Aug 2023

### Master of Science, Georgetown University

Washington, D.C.

Aug 2014 — Aug 2018	<b>Doctor of Philosophy, Mississippi State University</b> Biological Engineering with minor in Geospatial and Remote Sensing Technologies	Mississippi State, MS <b>GPA:</b> 3.91/4.0
Aug 2012 — Aug 2014	<b>Master of Science, Michigan State University</b> Civil Engineering	East Lansing, MI <b>GPA:</b> 3.79/4.0
Sep 2008 — Jun 2012	<b>Bachelor of Science, Wuhan University</b> Environmental Engineering	Wuhan, China <b>GPA:</b> 3.3/4.0

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AWARD

Feb 2023	<b>Best Case Study of 2023 Award for “Great Lakes Runoff Intercomparison Project Phase 3: Lake Erie (GRIP-E),”</b>	Journal of Hydrologic Engineering
Jun 2022	<b>Returning Student Scholarship</b>	Georgetown University
Nov 2018 — Oct 2019	<b>Post-doctoral Fellowship</b>	Oak Ridge Institute for Science and Education
Jul 2018	<b>Student Travel Assistance Grants</b>	Mississippi State University Graduate School Graduate
Jul 2016	<b>Student oral presentation third place</b>	Mississippi Water Resources Conference (MS-WRRI)

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CERTIFICATE

**Engineer in Training**  
Obtained April 2018