

# Anran Zheng

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Personal Academic Website: <https://anranz.netlify.app/>

## EDUCATION

### University of Pennsylvania

Aug. 2021 – present

Master of Urban Spatial Analytics

- **Relevant Coursework:** Statistics, Python, R, JavaScript, SQL, GIS, Remote Sensing, Machine Learning

### Capital Normal University

Sept. 2017 – Jun. 2021

Bachelor of Science in GIS

**GPA: 3.92/4.0, Rank: 1/43**

- **Honors:** Outstanding Graduate Student Award (2021)

### Northern Illinois University

Aug. 2018 – May. 2020

Bachelor of Science in Geography

**GPA: 3.95/4.0, Rank top 5%**

- **Honors:** Dean's List for all semesters

## ACADEMIC EXPERIENCES

### Teaching and Research Assistant at Capital Normal University

Sept. 2020 – Aug. 2021

- Taught Python and QGIS to sophomore students and tutored them to complete the assignments.
- Drafted the QGIS and GRASS tutorial on digital terrain analysis.

### Spatiotemporal transmission pattern of the COVID-19 in New York

Sept. 2020 – Jun. 2021

Leader of Capital Normal University Geography Talent Development Program

- Conducted spatial autocorrelation and spatiotemporal scanning analysis to detect the COVID-19 clusters.
- Analyzed the factors influencing the COVID-19 spreading with Geodetector method.

### Automatic lake extraction and classification in Tibet based on DEM data

Jan. 2020 – May. 2020

Research Assistant in the Tibet Institute of Chinese Academy of Science

- Extracted and classified, and analyzed the changes of lakes in Tibet from DEM data using Arcpy and Python.

## PUBLICATION

- **Zheng, A.;** Wang, T.; Li, X. Spatiotemporal Characteristics and Risk Factors of the COVID-19 Pandemic in New York State: Implication of Future Policies. ISPRS Int. J. Geo-Inf. 2021, 10, 627.  
<https://doi.org/10.3390/ijgi10090627>

## INTERNSHIPS

### Remote Sensing Engineer | Piesat Information Technology Co., Ltd – Beijing, China

Mar. 2021 – Jun. 2021

- Tested the C++ and Python algorithm of PIE-Engine, a remote sensing programming package.
- Processed the remote sensing data with ERDAS and ArcGIS, and completed writing the user's manual.

### GIS and Statistics Analyst | Shenzhen Visiondom ESG Co., Ltd – Beijing, China

Nov. 2020 – Jan. 2021

- Established a water pollution simulation model of Yangtze River Delta region with ENVI and SPSS.
- Modelled the distribution pattern of urban residents of the Pearl Delta region with GIS and statistics methods.

### GIS Researcher | Chinese Academy of Surveying and Mapping – Beijing, China

Jul. 2020 – Oct. 2020

- Conducted spatial and statistics analysis on the land-use data of Hefei city during 2017-2019 in ArcGIS.
- Analyzed the land use changing patterns of Yeyahu National Wetland Park within 8 years with remote sensing and landscape analysis softwares.

## SKILLS

- **Applications:** Expert in ArcGIS, QGIS and ArcGIS Pro; proficient in ENVI, ERDAS, GeoDa, and SPSS.
- **Programming:** Proficient in R, SQL, Python and Arcpy; familiar with HTML, JavaScript, C and C++.
- **Language Skills:** Mandarin (Native); English (TOEFL 108, GRE 320).

