Anran Zheng

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EDUCATION

University of Pennsylvania   *Aug. 2021 – present*

Master of Urban Spatial Analytics

- **Relevant Coursework:** Statistics, Python, R, 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 – present*

- 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*

Capital Normal University Geography Talent Development Program

- Visualized the spatiotemporal characteristics of the COVID-19 with ArcGIS and Python.
- 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.

INTERNSHIPS

Piesat Information Technology Co., Ltd   *Mar. 2021 – Jun. 2021*

Beijing, China   Remote Sensing Engineer

- 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.

Shenzhen Visiondom ESG Co., Ltd   *Nov. 2020 – Jan. 2021*

Beijing, China   GIS and Statistics Analyst

- 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.

Chinese Academy of Surveying and Mapping   *Jul. 2020 – Oct. 2020*

Beijing, China   GIS and Statistics Analyst

- Conducted spatial and statistics analysis on the land-use data of Hefei city during 2017-2019 in ArcGIS.
- Analyzed the land cover and 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 Python and Arcpy; beginner in SQL, Java, R, C and C++.
- Language skills: Mandarin (Native); English (TOEFL 108, GRE 320).