

Anran Zheng

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EDUCATION

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|---|---|
| University of Pennsylvania Master of Urban Spatial Analytics | <i>Aug. 2021 – present</i> |
| ▪ Relevant Coursework: Statistics, Python, R, JavaScript, SQL, GIS, Remote Sensing, Machine Learning | |
| Capital Normal University Bachelor of Science in GIS | <i>Sept. 2017 – Jun. 2021</i> GPA: 3.92/4.0, Rank: 1/43 |
| ▪ Honors: Outstanding Graduate Student Award (2021) | |
| Northern Illinois University Bachelor of Science in Geography | <i>Aug. 2018 – May. 2020</i> GPA: 3.95/4.0, Rank top 5% |
| ▪ Honors: Dean's List for all semesters | |

ACADEMIC EXPERIENCES

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| Teaching and Research assistant at Capital Normal University | <i>Sept. 2020 – Aug. 2021</i> |
| ▪ 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 | <i>Sept. 2020 – Jun. 2021</i> |
| <i>Capital Normal University Geography Talent Development Program</i> | |
| ▪ 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 | <i>Jan. 2020 – May. 2020</i> |
| <i>Research Assistant in the Tibet Institute of Chinese Academy of Science</i> | |
| ▪ Extracted and classified, and analyzed the changes of lakes in Tibet from DEM data using Arcpy and Python. | |

INTERNSHIPS

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| Piesat Information Technology Co., Ltd Beijing, China | <i>Mar. 2021 – Jun. 2021</i> 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 Beijing, China | <i>Nov. 2020 – Jan. 2021</i> 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 Beijing, China | <i>Jul. 2020 – Oct. 2020</i> 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, JavaScript, R, C and C++.
- Language skills: Mandarin (Native); English (TOEFL 108, GRE 320).

