Hang Tian

Address: 1513 Deer lakes Dr, Buffalo, New York 14228
Telephone: 8478345896
Email: hangtian@buffalo.edu

EDUCATION

- **University at Buffalo**, Buffalo. New York — August 2021 – July 2023

Master of Science – Geographic information science — GPA:3.95 / 4

Course taken: Univariate & Multivariate Statistics in Geography, GIS & Machine Learning, Locational Analysis, Advanced Remote Sensing

- **Nanjing University**, Nanjing, China — September 2017 - June 2021

SKILLS

Bachelor's degree of science – Human geography

- **ArcGIS Software manipulating**
  - ✓ 4+ years' experience of using ArcGIS pro software on geography course works & research programs.
- **Python programming & geocoding**
  - ✓ Familiar with data processing and cleaning using Python. Familiar with packages like 'pandas', 'numpy' and 'geopandas'.
  - ✓ Frequently use python for geocoding and data visualization.
- **R programming & geocoding**
  - ✓ Familiar with data processing and cleaning using R.
- **Remote Sensing Image Processing with ENVI and Python**
  - ✓ 3+ years' experience of processing remote sensing image with ENVI on geography course works & research programs.
- **Microsoft Office software basic skills**

RESEARCH & PROGRAM EXPERIENCES

- Evaluating spatial homogeneity of temperature and air quality in New York state
  - ✓ A poster presentation on American Association of Geographers 2022, NYC.
  - ✓ Cleaning, integrating & calculating statistics for data collected using R.
  - ✓ Resampling and converting temperature raster data using ArcGIS.
- Comparing hourly & daily, static & dynamic PM2.5 exposure to Divvy bikeshare users in Chicago.
  - ✓ A research program from May 2022 to present.
  - ✓ Extract calibrated PM2.5 records using Python from Project Eclipse API, a Microsoft research program team.
  - ✓ Collecting, cleaning & integrating Bikeshare trips data from Divvy using Python.
  - ✓ Retrieve estimated bikeshare routes from Google directions API using Python.
  - ✓ Apply spatial-temporal statistics modeling to create PM2.5 surface using R.

- Random forest regression-based air temperature retrieval in New York state combining Landsat 8 images and multiple source data
  - ✓ Collecting surface air temperature (Ta) data at 32 stations from NOAA.
  - ✓ Extract digital number values of Landsat 8 remote sensing images at Ta stations from 2013 to 2022 using **Google Earth engine**.
  - ✓ Combining DEM (digital elevation model) and land cover data as input to estimate Ta based on a random forest model.