$\underline{Anran \ Zheng}_{\texttt{anranzheng@uff.edu} \ | \ \texttt{a}_{1-267-206-6279} \ | \ \texttt{O}_{\underline{Portfolio} \ | \ \texttt{m}_{\underline{LinkedIn}}}$

Education

University of Florida	Gainesville, FL
Master of Transportation Engineering	Aug 2023
University of Pennsylvania Master of Urban Spatial Analytics	Philadelphia, PA May 2022
Capital Normal University	Beijing, China
Bachelor of Science in GIS	Jun 2021
SKILLS	
 Programming: Python, R, SQL, C++, Latex. Spatial Analysis: ArcGIS, Module Builder, QGIS, ArcGIS Pro, Google Earth Engine, SPSS. Data Visualization: Tableau, PowerBI, Javascript, HTML/CSS, ArcGIS Online. 	
Projects	
 Analysis of Miami-dade Transit buses' On-time Performance (OTP) [link] Scrapped and processed ~ 100 GB of 5-year OTP data from Swiftly API. 	Apr. 2023 - now
 Measured the OTP through various metrics (e.g. arrival time/headway difference at rout visualized through Tableau dashboard and delivered reports to Miami Transit Auth Conducted Feature Engineering and EDA of OTP data. Employed time-fixed effect identify out key features impacting the bus ridership (e.g. short headway, on-time rate). 	nority.
 Leveraging Big data analytics to plan Mobility Hub in Florida [Story map] Collected and processed geospatial data among various cities from multiple sources (e.g. Analyzed and quantified spatial indicators (e.g. transit connectivity, spatial accessible equity) through Module Builder in ArcGIS. Integrated them to the suitability score to Collaborated with FDOT to produce reports and deliver monthly presentations. 	oility, and social
 Analysis of Large-scale GPS Travel Survey Data in North Florida Ma Cleaned, preprocessed and visualized a massive GPS dataset at ~ 140 GB. Designed sophisticated algorithms based on a novel Python package named <i>trackintel</i>, while identify individuals' trip information to access the food sources and their travel modes from the statement of the stateme	
 Plan the Siting of E-bus Charging Stations (EBCS) in Gainesville, FL [link] Oc Extracted real-time vehicle location data at ~ 1 million records over half a year from pe Built predictive model to estimate the bus electric energy consumption based on the GT Implemented a location optimization model to site EBCS, which can achieve 95% service given only 4 EBCS being sited in Gainesville. 	FS dataset.
 Spatial Accessibility to the COVID-19 Testing Sites in NYC [link] Jacobian SQL to extract COVID-19 data and loaded into Google Cloud State data into appropriate form with Google Big Query. (ETL Pipeline) Utilized O-D cost matrix and network analysis to assess the spatial accessibility to CO ArcGIS Pro. Identified and compared the spatial accessibility across multimodal transpose Investigated socioeconomic factors influencing the spatial accessibility through GWR matrix 	VID-19 testing sites in rt modes.
Work Experiences	
 Chinese Academy of Surveying and Mapping GIS and Statistical Analyst J Extracted and classified lakes in Tibet through advanced Python programming based on dataset. Saved 80% of calculation time and proved the effects of global warming on I Performed spatial and statistical analysis about changes of land-use patterns among different with ArcGIS, SPSS and advanced functions in Excel (e.g. VLOOKUP, Pivot Table) 	ake size changes. rent cities in China