

WORK EXPERIENCE

- Graduate Research Assistant, University of North Carolina, Charlotte Fall 2020 - present
Transit Development and Neighborhood Change Project, funded by North Carolina Department of Transportation
 - Improve the data processing efficiency by automating the cleaning and classification of spatiotemporal data of building permits and land subdivisions in Mecklenburg County between 1990 to 2019 utilizing Python, R and ArcGIS software
 - Conduct text cleaning and geocoding of over 400,000 spatiotemporal data records

- Graduate Research Assistant, University of North Carolina, Charlotte Summer 2021 - present
UNCC BRIC Nutrition Security Project, Department of Public Health Science
 - Conduct exploratory data analysis on UNCC students' food purchases temporal data utilizing R.
 - Develop interactive visualization reports for UNCC students' food purchases temporal data utilizing R.
 - Implement multivariate analysis to examine food and beverage purchasing choices among college students.

- Graduate Research Assistant, UNCC School of Data Science, Charlotte Summer 2020
[COVID19 Visualization Dashboard Project](http://sds-covid.uncc.edu/), in collaboration with Wells Fargo Bank
<http://sds-covid.uncc.edu/>
 - Generated automated scripts to collect, clean, preprocess and analyze raw Covid19 data in US counties on a daily basis using R statistical software
 - Generated automated scripts to conduct hotspot analysis on Covid19 measures in US counties on a daily basis using Getis Ord Gi* Statistic method in R statistical software
 - Generated automated scripts to conduct cluster analysis on Covid19 measures in US counties on a daily basis using AMOEBA optimization-based algorithm in R statistical software
 - Assisted data visualization of COVID19 daily measures, hotspot analysis, cluster analysis and social distancing measure
 - Assisted Covid19 forecast ensemble modeling for enhancing prediction performance
 - Implement Spatial SEIR Covid19 prediction model in R statistical software
 - Utilized cellphone mobility big data for enhancing the Covid19 prediction performance by incorporating human interactions

- Graduate Research Assistant, University of North Carolina, Charlotte Fall 2019 - Spring 2021
State Energy Project Resiliency, funded by U.S. Department of Energy through North Carolina Department of Environmental Quality
 - Analyzed the impact of hurricane Florence on power outages and economic loss in North Carolina
 - Processed and analyzed spatiotemporal ADP payroll big data to evaluate economic loss during hurricane Florence
 - Collected, preprocessed and analyzed spatiotemporal Night Light remote sensing data using Python for identifying daily power outages during hurricane Florence

- Graduate Research Assistant, University of North Carolina, Charlotte Summer 2018
Port choice project, funded by the World Bank, Port Choice in the Cone of Southern Africa
 - Collected and analyzed data on global vessel trajectories and ports facilities

- Teaching Assistant, University of North Carolina, Charlotte Spring 2018 - spring 2019

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SKILLS

Machine learning, Data mining, Data visualization, SQL, Data wrangling, Feature selection, Risk analysis, Optimization, Linear programming, Statistics, Spatial statistics

COMPUTER SKILLS

Python, R, MATLAB, SAS, ArcGIS, SPSS, Excel (Analytic Solver Platform for Education (ASPE)), Pajek, Gephi

PUBLICATIONS AND CONFRENS

- Nikparvar, B., Rahman, M., Hatami, F., & Thill, J. C. (2021). Spatio-temporal prediction of the COVID-19 pandemic in US counties: modeling with a deep LSTM neural network. *Scientific Reports*, 11(1), 1-12.
- Racine, E. F., Schorno, R., Gholizadeh, S., Bably, M. B., Hatami, F., Stephens, C., Zadrozny, W., Schulkind, L., & Paul, R. (2022). A College Fast-Food Environment and Student Food and Beverage Choices: Developing an Integrated Database to Examine Food and Beverage Purchasing Choices among College Students. *Nutrients*, 14(4), 900. <https://doi.org/10.3390/nu14040900>
- Paul, R., Chen, S., Thill, J. C., Hatami, F., Patel, R., Verma, H., Lalgondar, P. (2021) [Bayesian spatiotemporal ensemble nowcasting of covid-19 deaths across the contiguous United States](#). *American Public Health Association 2021 Annual Meeting and Expo*.
- Hatami, F., Thill, J. C. (2020). Quantifying the impact of built environment types on duration of commute. *American Association of Geographers Annual Meetings*.
- Sanaeefar, H., Hatami, F. (2019). Classifying Metro and BRT Stations in Order to Determine the Prospects and Appropriate TOD Projects, With the Case Study of the Central Part of Tehran City. *International Journal of Advanced Science and Technology* 28 (8), 107-124.

CERTIFICATES

- Pursuing Data Science and Business Analytics Certificate, University of North Carolina at Charlotte
GPA: 4 Fall 2019 - present
- Pursuing GIS certificate, University of North Carolina at Charlotte
GPA: 4 Fall 2018 - present

RESEARCH INTERESTS

- Interested in research in forecast models using machine learning and deep learning techniques
- Interested in research in Geo-visualization and GIS

AWARDS, DISTINCTIONS AND FELLOWSHIPS

- Graduate Assistant Support Plan Award Fall 2018 - present
 - University of North Carolina at Charlotte

VOLUNTEERING

ISO student organization at UNCC, *Program director* Fall 2018 - spring 2019

EDUCATION

University of North Caroline at Charlotte

Ph.D. in Geography, Charlotte, North Carolina. GPA: 4

Fall 2018 - present

International University of Imam Reza

Master of Urban Design, Mashhad, Iran. GPA: 3.48

2012 - 2014

Bojnourd University

Bachelor of Engineering, Urban Planning Engineering, Bojnourd, Iran. GPA: 3.38

2008 - 2012