Yanan Wu

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Ph.D. student, Department of Geospatial Information Sciences, The University of Texas at Dallas			
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EDUCATION			
2019-	2024	Ph.D. student in Geospatial Information Sciences, The University of Texas at Dallas, Richardson, TX,	
		USA. Advisor: Dr. May Yuan	
2019		M.A. in Geography. Binghamton University, Binghamton, NY, USA.	
		Thesis: Integration of Earth observations and in situ data for analyzing lake level changes in Minnesota	
		(1990-2016). Advisor: Dr. Qiusheng Wu	
2016		B.S. in Resource Environment and Urban-Rural Planning Management. Xi'an University of Science and	
		Technology, China.	
		Thesis: Analysis of drought evolvement characteristics based on Temperature Vegetation Dryness Index	
		(TVDI) in the Huaihe river basin. Advisor: Dr. Xiaoliang Shi	
APPOINTMENTS			
2022-curren		Teaching Assistant, Geospatial Information Sciences, The University of Texas at Dallas	
		EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Science	
2021-2022		Instructor, Geospatial Information Sciences, The University of Texas at Dallas	
		GISC 3304 Principles of Geospatial Information Sciences	
		EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Science	
2020-2021		Teaching Assistant, Geospatial Information Sciences, The University of Texas at Dallas	
		GISC 6325 Remote Sensing Fundamentals	
		GISC 4325 Introduction to Remote Sensing	
		GISC 4386 Global Changes and its Challenges	
		GISC 3304 Principles of Geospatial Information Science	
2019-2020		Research Assistant, Geospatial Information Sciences, The University of Texas at Dallas	
		Participated in the NIST funded research project: SAFE-NET: An Integrated Connected Vehicle and	
		Computing Platform for Public Safety Applications	
2017-2019		Graduate Assistant, Department of Geography, Binghamton University	
		Process global remote sensing image; detect changing pattern of lakes from GRACE data	
AWARDS			
2023	3 International Cartographic Association Scholarship		
2023	Travel award from USNC for ICA with NSF funding to attend the ICC2023		
2023	Betty & Gifford Johnson Travel Award, UTD		
2022			
2022	International Cartographic Association Scholarship		
2022	2 Second Place, Student Lightning Talk Award, UCGIS Symposium		
2022	2 Third Place in GIS day 2022 Awarded by Geospatial Information Sciences Program, UTD		
2022	2 Travel award from UCGIS to attend the UCGIS Symposium		
2022	The U	Iniversity of Texas at Dallas 2022 Three Minute Thesis (3MT) Competition, Finalist	
2022	Honor	rable mentions, GI Science & Systems Student Honors Paper Competition session, AAG	
2021	International Cartographic Association Scholarship		
2021	Trave	Travel award from USNC for ICA with NSF funding to attend the ICC2021	
2021	Pione	ers Student Research Fund, Geospatial Information Sciences Program, UTD	
2021	PhD F	Research Small Grants Awarded by the Office of Graduate Education, UTD	
2021	First I	Place in GIS day 2021 Awarded by Geospatial Information Sciences Program, UTD	
2019	First I	Place in GIS day 2019 Awarded by Geospatial Information Sciences Program, UTD	

- 2019 Pioneers Student Research Fund, Geospatial Information Sciences Program, UTD
- 2019 First Place in GIS day 2019 Awarded by Geography Department at Binghamton University
- 2015 Outstanding Prize in GeoDesign at Esri GIS Software Development Contest

PRESENTATIONS

- 2022 Driving pattern analysis for emergency vehicle (EV), AutoCarto, November
- 2022 Understanding emergency vehicle movement from GPS trajectory data, GIS Day in UTD, November
- 2022 Understanding 911 Response time from GPS trajectory data, UTD Research Day, October
- 2022 Driving pattern analysis for emergency vehicle (EV) using multi-source data, UCGIS, Syracuse, NY, June
- 2022 Why is there a delay in a 911 vehicle arriving? The Three Minute Thesis (3MT) Competition, UTD, April
- **2022** Location analytics of routine occurrences (LARO) to identify locations with regularly occurring events with a case study on traffic accidents, *USGIF GEOINT Symposium, Aurora, CO*, April
- **2022** Location analytics of routine occurrences (LARO) with a case study on traffic accidents, *Association of American Geographers (AAG), New York,* February
- **2021** Where and why there: location analytics of routine occurrences (LARO) with a case study on traffic accidents, *ICC conference, Florence, Italy*, December
- 2021 Emergency vehicle data map-matching utilizing the Dijkstra's Algorithm, GIS Day in UTD, November
- **2021** Spatial-temporal analysis of traffic accidents for increasing sustainable transportation, *The Center for Spatial Studies at UCSB*
- 2021 The Three Minute Thesis (3MT) Competition, The University of Texas at Dallas, April
- 2020 Research Showcase Poster Competition, EPPS, The University of Texas at Dallas, October
- 2019 Visualizing (Wild) Fires in Sentinel-2 imagery using custom script in EO Browser, GIS Day in UTD, November
- 2019 Developing an hourly risk model for street networks in Dallas, SWAAG, Fort Worth, Texas. October
- **2019** Integration of Earth observations and in situ data for analyzing lake level changes in Minnesota (1990-2016), *GIS Day in Binghamton University*, March
- **2019** Integration of Earth observations and in situ data for analyzing lake level changes in Minnesota (1990-2016). *Association of American Geographers (AAG), Washington D.C.* April

PUBLICATION

Wu, Y., & Yuan, M. (2021). Where and why there: location analytics of routine occurrences (LARO) with a case study on traffic accidents. *Abstracts of the ICA*, 3, 318.

CONFERENCE PROCEEDINGS

Wu, Y., Yang, Y., Yuan, M. Analyze emergency-vehicle dispatches in Dallas, Texas, USA, In *AutoCarto 2022 Proceedings*.

Yang, Y., Wu, Y., Yuan, M. Quantifying the impacts of social infrastructure on human networks, In *AutoCarto 2022 Proceedings*.

SERVICE

2022 Student judge for Faculty Three Minutes Thesis (3MT) Competition in UTD

2022 USGIF Student Assistant Program at the 2022 GEOINT Symposium

CERTIFICATION

Spatiotemporal Innovation Workshop Sentiment Analysis on Social Media, 2022

AREAS of RESEARCH

- Geographic Information Science (GIS)
- Urban Environment and development
- Web-based Mapping and information Processing
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RESEARCH SKILLS

Extensive experience in Python, R, ArcGIS, SPSS Knowledgeable in MATLAB, AutoCAD, Gephi,

- Geospatial Data Science
- Spatial analysis and modeling
- essing Remote Sensing digital image processing