

# YANAN WU

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## SUMMARY

PhD Student in the Geospatial Information Sciences Department at the University of Texas at Dallas. 2 years of teaching experience as an instructor, guiding students to achieve success in learning geographic information science (GIS) and statistics. Excellent written and verbal communication skills evident by extensive conferences and awards. Proven problem-solving, relationship-building, and negotiation through academic and research experience as a Teaching Assistant and a Research Assistant.

## EDUCATION

<b>Doctor of Philosophy in Geospatial Information Sciences</b>	<b>May 2024</b>
The University of Texas at Dallas	
<b>Master of Arts in Geography</b>	<b>May 2019</b>
Binghamton University	
<b>Bachelor of Science in Resource Environment and Urban-Rural Planning Management</b>	<b>May 2016</b>
Xi'an University of Science and Technology, China	

## PROFESSIONAL EXPERIENCE

<b>Teaching Assistant</b>	<b>2022 – Current</b>
EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Science	
<b>Instructor</b>	<b>2021 – 2022</b>
GISC 3304 Principles of Geospatial Information Sciences	
EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Science	
<b>Teaching Assistant</b>	<b>2020-2021</b>
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	
<b>Research Assistant</b>	<b>2019 – 2020</b>
Participated in the NIST-funded research project: SAFE-NET An Integrated Connected Vehicle and Computing Platform for Public Safety Applications	
<b>Graduate Assistant</b>	<b>2017 – 2019</b>
Produce global remote sensing image; detect changing pattern of lakes from GRACE data	

## PUBLICATIONS

**Wu, Y.,** Yang, Y., & Yuan, M. (2023). Location analytics of routine occurrences (LARO) to identify locations with regularly occurring events with a case study on traffic accidents. *Information* (Under review)

**Wu, Y.,** Yang, Y., & Yuan, M. (2023). Understanding the role of geographical environments in emergency dispatches with GPS trajectories. *Abstracts of the ICA*, 6, 276.

**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*.

## AWARDS

**2023** Second Place in Graduate Paper Competition, SWAAG conference

**2023** 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** Graduate student participants of the Grad WINGS Workshop, UCGIS
- 2022** International Cartographic Association Scholarship
- 2022** Second Place, Student Lightning Talk Award, UCGIS Symposium
- 2022** Third Place in GIS Day 2022 Awarded by Geospatial Information Sciences Program, UTD
- 2022** Travel award from UCGIS to attend the UCGIS Symposium
- 2022** The University of Texas at Dallas 2022 Three Minute Thesis (3MT) Competition, Finalist
- 2022** Honorable mentions, GI Science & Systems Student Honors Paper Competition session, AAG
- 2021** International Cartographic Association Scholarship
- 2021** Travel award from USNC for ICA with NSF funding to attend the ICC2021
- 2021** Pioneers Student Research Fund, Geospatial Information Sciences Program, UTD
- 2021** PhD Research Small Grants Awarded by the Office of Graduate Education, UTD
- 2021** First Place in GIS Day 2021 Awarded by Geospatial Information Sciences Program, UTD
- 2019** First 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 the Geography Department at Binghamton University
- 2015** Outstanding Prize in GeoDesign at Esri GIS Software Development Contest

## PRESENTATIONS

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- 2023** Identify geographical environments influencing emergency response performance. *SWAAG*,
- 2023** Modeling of emergency incident with GPS trajectory data using random forest algorithm. *ICC*, August
- 2023** Assessing the role of geographical context in modeling the likelihood of emergency response. *AAG*, April
- 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. *CO*, April
- 2022** Location Analytics of Routine Occurrences (LARO) with a case study on traffic accidents. *AAG, New York*, February
- 2021** location analytics of routine occurrences (LARO) with a case study on traffic accidents. *ICC, 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. *GIS Day at Binghamton University*, March
- 2019** Integration of Earth observations and in situ data for analyzing lake level changes. *AAG, Washington D.C.* April

## ACADEMIC SERVICE

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- 2022** Student judge for Faculty Three Minutes Thesis (3MT) Competition in UTD
- 2022** USGIF Student Assistant Program at the 2022 GEOINT Symposium

## PROFESSIONAL MEMBERSHIPS

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American Association of Geographers  
 Cartography and Geographic Information Society