

My-Thu Tran

Curriculum Vitae

November 2024

Department of Geography, San Diego State University

5500 Campanile Drive, San Diego, CA 92182-4493

Email: mtran9043@sdsu.edu

<https://www.linkedin.com/in/my-thu-tran/>

Google Scholar website: <https://scholar.google.com/citations?user=ZbTK0sQAAAAJ&hl=en>

EDUCATION

- 8/2022 **Ph.D. student**, Joint Doctoral Program in Geography offered by San Diego State University
- present (SDSU) and the University of California, Santa Barbara (UCSB).
2020-2022 **Master of Arts** in Geography & Advanced Certificate in Geographic Information Systems (GIS),
San José State University (SJSU), USA.
2015-2019 **Bachelor** of Geography Teacher Education, Ho Chi Minh City University of Education, Vietnam.

RESEARCH INTERESTS

Applied GIS, Remote Sensing, Drone Mapping, Social-Ecological Systems, Spatial Analysis and Modelling, Cartography and Geovisualization.

PEER-REVIEWED PUBLICATIONS

1. **My-Thu Tran** and Bo Yang. "Using Thermal Remote Sensing to Quantify Impact of Traffic on Urban Heat Islands during COVID" *Mineta Transportation Institute Publications* (2023). <https://doi.org/10.31979/mti.2023.2207>

PRESENTATIONS

- 3/2023 **Oral Presentation at AAG Annual Meeting** Denver, CO, USA
Topic: Using thermal remote sensing to quantify impact of traffic on urban heat island during COVID-19 lockdown in North California Bay Area.
3/2023 **Panelist in a panel discussion, AAG Annual Meeting** Denver, CO, USA
Topic: New Voices in Future UAS/UAV Research and Education
11/ 2022 **Poster Presentation at AutoCarto 2022 Conference** Redlands, CA, USA
Topic: Estimating and mapping wildfire risk and its impacts on residents in the San Francisco Bay Area region.

RESEARCH EXPERIENCE

- | | |
|-------------|---|
| 4-5/10/2024 | Attended the 2024 IEEE GRSS IFT-MIRS TC Joint Summer School hosted by MLA GRSS Chapter, California Institute of Technology, CA, USA. |
| 7/2024 | Fieldwork in Cambodia to visit local researchers and rice field study sites in the part of my dissertation. |
| 4-7/6/2024 | Attended the High Performance and Disruptive Computing in Remote Sensing School, Santiago de Compostela, Spain. |
| 5- 7/2024 | Research Internship at Western Norway Research Institute in Sogndal, Norway , funded by the Norway Research Council through the project "Disruptive Technologies for a Resilient Future". |
| 5/2023 | Fieldwork in Chitwan National Park, Nepal to interview local people and set up the camera trap. Local partner with National Trust for Nature Conservation & Institute for Social and Environmental Research-Nepal. Funding from National Science Foundation, award # 1826839 CNH-L: People, Place, and Payments in Complex Human-Environment Systems . |
| Summer 2022 | Fieldwork of drone mapping coastal seagrass habitats Bodega Bay and Tomales Bay, CA, USA
Collaborated with SJSU and UC, Davis's students to use DJI Phantom 4 Pro and DJI Inspire for collecting data. Story map: https://arcg.is/0rWuLf |
| Spring 2022 | Research Assistant SJSU, USA
Worked with Dr. Bo Yang to collect and process MODIS data for studying urban heat islands in Northern & Southern CA, funded by the SJSU Research Foundation. |
| Fall 2021 | Slope Analysis Project SJSU, USA
Worked with 2006 & 2020 LiDAR data provided by the City of San Jose's Public Works Department to conduct the methodology and analysis of DEM, slope, and subsidence area in San José city. It was a part of URBP-279: Advanced GIS for Urban Planning course. |
| Fall 2021 | Sidewalk Delivery Robots Community Engagement SJSU, USA
Collaborated with two classmates to conduct reports from interviewing San José residents about their concerns related to the use of Kiwibots for delivery. It was a part of URBP 236: Urban and Regional Policy Analysis, Implementation, and Evaluation: Tools and Methods course by Dr. Serena Alexander. |

TEACHING EXPERIENCE

- | | | |
|-------------|--|---|
| Fall 2024 | Teaching Assistant | SDSU, USA |
| | GEOG-591L: Remote Sensing of Environment Laboratory | |
| Spring 2023 | Teaching Assistant & Guest Lecturer | SDSU, USA |
| | GEOG-104: Geographic Information Science and Spatial Reasoning | |
| Summer 2022 | Teaching Assistant | Mineta Summer Transportation Institute, SJSU, USA |

Assisted Dr. Bo Yang in instructing the opening session for k-12 students about drones, geospatial technologies, and GIS for transportation and environmental science.

Media coverage: https://lnkd.in/g8_ysgmq & <https://vimeo.com/873143642>

Spring 2022	Teaching Assistant	SJSU, USA
	URBP-278: Introduction to GIS for Urban Planning	
Spring 2019	Nguyen Trai High School	Ho Chi Minh City, Vietnam
	Geography Teacher Intern	
Spring 2018	Nguyen Thi Dieu High School	Ho Chi Minh City, Vietnam
	Geography Teacher Intern	

GRANTS, HONORS & AWARDS

4-5/10/2024	Travel grant to attend the 2024 IEEE GRSS IFT-MIRS TC Joint Summer School hosted by MLA GRSS Chapter, California Institute of Technology, CA, USA.
5 - 10/2024	Student Success Fee Award, SDSU to organize a trip to attend ISPRS TCIV 2024, Perth, and visit the University of Queensland, Brisbane, for 10 students. (\$33,254.00)
4/2024	GGSA fully funded to AAG, Honolulu, HI.
3/2024	Long Gen Travel Award for dissertation research in Cambodia offered by the Department of Geography, SDSU. (\$1500)
8/2023	Pacific Southwest Region ASPRS Scholarship (\$1500)
3/2023	GGSA fully funded to AAG, Denver, CO.
5/2023	Long Gen Travel Award for dissertation research in Nepal offered by the Department of Geography, SDSU. (\$1500)
9/2022	International Cartographic Associated (ICA) scholarship for participating in AutoCarto 2022, an ICA regional Cartographic Conference scheduled for November 2022 in Redlands, CA.
8/2022 - present	Doctoral Teaching Associateship , Joint Doctoral Program in Geography offered by SDSU and UCSB.
7/2022	Funding support for the FAA Part 107 drone license exam from the Department of Urban and Regional Planning, SJSU.
7/2022	Travel funding for ESRI User Conference 2022 in San Diego from the Department of Urban and Regional Planning, SJSU.
5/2022	Geography Outstanding Student Award , Department of Urban and Regional Planning, SJSU, USA.
5/2022	Maria Henle Scholarship , Department of Urban and Regional Planning, SJSU, USA. (\$500)
2020-2022	Full sponsorship to study Geography Master program at SJSU, USA.
2019	3rd prize for scientific research entitled “Analyzing Spatiotemporal Drought Variations in Times of Climate Change”. Department of Geography, Ho Chi Minh City University of Education, Vietnam
2016	2nd prize for scientific research entitled “Analyzing the level of satisfaction of domestic tourists in Bai Sau, Vung Tau city”. Department of Geography, Ho Chi Minh City University of Education, Vietnam

2015-2019 **VietSeeds Foundation Scholarship**, a non-profit organization supports highly motivated students from underserved demographics in Vietnam for undergraduate education. (\$4000) <https://www.vietseeds.org/en/>

2015 **3rd prize** in Geography, National Excellent Student Contest for high school students, Vietnam.

SKILLS

Computer proficiency: MS Office (Word, Excel, PowerPoint), ArcGIS Pro, ArcMap, ENVI, Google Earth Pro, QGIS, Drone2Map, PyCharm, SPSS, R, Python.

Qualitative skills: open-ended interview, 5-Point Likert Scale survey.

Languages: Vietnamese (native or bilingual proficiency), English (full professional proficiency).

PROFESSIONAL AFFILIATIONS

Cartography and Geographic Information Society (CaGIS)

University Consortium for Geographic Information Science (UCGIS)

American Association of Geographers (AAG)

American Society for Photogrammetry and Remote Sensing (ASPRS)

SERVICE

8/2024 - present Vice-President for the ASPRS student chapter at SDSU.

4/2024 Conference assistant at AAG, Honolulu, HI.

8/2023 - 08/2024 Communication Chair for the ASPRS student chapter at SDSU.

10/2023 - 06/2024	Co-chair for HealthCare Working group, UCSB Graduate Student Association.
-------------------	---

VOLUNTEER ACTIVITIES

2018	Day One Program Co-founder of the “Girl! Learn without Fear” Project - a community project to equip students with the necessary knowledge and skills to protect themselves, especially female students living and studying in big cities.	Ho Chi Minh City, Vietnam
------	--	---------------------------

2016-2017	Education for Nature - Vietnam	Ho Chi Minh City, Vietnam
	Exhibition leader of ENV's volunteer club, organizing public awareness and mobilization campaigns and investigating violations of illegal wildlife use.	

RESEARCH GROUPS

9/2023 - present Visualization & Image Processing for Environmental Research (VIPER Lab), UCSB

1/2023 - present	Center for Information Convergence and Strategy, SDSU. https://cics.sdsu.edu/
8/2022 - 5/2023	Complex human-environment systems (CHES) laboratory. http://complexities.org/index.htm