

DANIAL ALIZADEH

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4829 Ellison Hall, Department of Geography, UCSB

EDUCATION

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|---|---|
| University of California Santa Barbara Ph.D. in Geography | <i>September 2022 - October 2026 (expected)</i> |
| University of California Santa Barbara M.A. in Statistics, Data science specialization | <i>September 2023 - June 2025</i> |
| K. N. Toosi, University of Technology, Iran M.S. in Geographic Information System (GIS) Engineering | <i>September 2017 - September 2020</i> |
| University of Tehran, Iran B.S. in Civil-Surveying Engineering | <i>September 2013 - September 2017</i> |

PUBLICATIONS (ORCID: 0009-0000-9459-3078)

1. Wagner, C., **Alizadeh, D.**, Dodge, S. (2025). PathVGAE: a path-based variational graph autoencoder framework for centrality predictions in road networks. *International Journal of Geographical Information Science*. (Under Review)
2. **Alizadeh, D.** and Dodge, S. (2024). Disaster vulnerability in road networks: a data-driven approach through analyzing network topology and movement activity. *International Journal of Geographical Information Science*. DOI: 10.1080/13658816.2024.2411001
3. **Alizadeh, D.**, Alesheikh, AA., Sharif, M. (2021). Vessel Trajectory Prediction Using Historical Automatic Identification System Data. *Journal of Navigation*. DOI: 10.1017/S0373463320000442
4. **Alizadeh, D.**, Alesheikh, AA., Sharif, M. (2021). Prediction of vessels locations and maritime traffic using similarity measurement of trajectory. *Annals of GIS*. DOI: 10.1080/19475683.2020.1840434

PRESENTATIONS

1. Quantifying mobility variations over the road network in the presence of disruptive events. *GIScience workshop on Disruptive Movement Analysis*. Leeds, UK, September 12, 2023. (Oral presentation; **Second-Best Student Paper Award**)
2. A Hybrid Model for Trajectory Prediction of Tropical Storms Using Movement Parameter and Context information. *GIScience workshop on Advancing Movement Data Science* (virtual workshop). September 27, 2021. (Oral presentation)
3. A point-based vessel position prediction through similarity search of historical AIS data. *14th International Symposium on Advances in Science and Technology (SASTech 2019)*. December 14, 2019. (Oral presentation)

PROFESSIONAL EMPLOYMENT HISTORY

Graduate Student Researcher

MOVE Laboratory, UCSB (PI: Dr. Somayeh Dodge) *Spring 2025*
• Measuring and contextualizing the impact of Palisades and Eaton wildfires across multiple scales.

MOVE Laboratory, UCSB (PI: Dr. Somayeh Dodge) *Summer 2023*
• Investigate the impact of disruptive events on the movement of people over the road network.

Associate Instructor

GEOG 176A: Introduction to Geographic Information Systems and Science *Summer 2024*

Teaching Assistant (UCSB)

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| <i>GEOG W12: Maps and Spatial Reasoning</i> | <i>Summer 2025</i> |
| <i>GEOG 176A: Introduction to Geographic Information Systems and Science</i> | <i>Fall 2024</i> |
| <i>GEOG 186: Analysis of Movement</i> | <i>Winter 2025</i> |
| <i>GEOG 176A: Introduction to Geographic Information Systems and Science</i> | <i>Fall 2024</i> |
| <i>GEOG 176C: GIS Design and Applications</i> | <i>Spring 2024</i> |
| <i>GEOG 176B: Technical Issues in GIS</i> | <i>Winter 2024</i> |
| <i>GEOG 176A: Introduction to Geographic Information Systems and Science</i> | <i>Fall 2023</i> |
| <i>GEOG 5: People, Place, and Environment</i> | <i>Summer 2023</i> |
| <i>GEOG 176C: GIS Design and Applications</i> | <i>Spring 2023</i> |
| <i>GEOG 5: People, Place, and Environment</i> | <i>Winter 2023</i> |
| <i>GEOG W12: Maps and Spatial Reasoning</i> | <i>Fall 2022</i> |

GRANTS, HONORS & AWARDS

- Second-Best Student Paper Award, GIScience workshop on Disruptive Movement Analysis *2023*
- Jack and Laura Dangermond Travel Award for GIScience Conference *2023*