Caitlyn Jeri Linehan

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EDUCATION

University of California, Santa Barbara — Santa Barbara, California
- *PhD in Geography;* Advisor: Dr. Trisalyn Nelson — Expected June 2026

Lehman College (CUNY) — Bronx, NY
- *M.S. in Geographic Information Science*; Advisor: Dr. Yuri Gorokovich — Received May 2021
- *Thesis:* An Application of the SLEUTH Model: Future Urbanization of Davidson County; (Link)

Trinity College — Hartford, CT
- *Bachelor of Science in Environmental Science* — Received May 2019

TEACHING AND MENTORING EXPERIENCE

University of California, Santa Barbara — Santa Barbara, California
Recipient of Certificate in College and University Teaching (CCUT) — October 2025
- Completed comprehensive pedagogical training program demonstrating competencies in: applying research and principles of student learning; planning equitable, inclusive, and accessible instruction; implementing evidence-based teaching innovations; and effectively instructing as Instructor of Record
- Developed teaching portfolio exemplifying teaching approach, expertise, and professional growth

University of California, Santa Barbara — Santa Barbara, California
Instructor — Summer 2025
Course: Geography W12: Maps and Spatial Reasoning
- Redesigned the course and developed quiz, lab, and course material for a 6-week summer session

Teaching Assistant — Fall 2021/Winter 2022/Fall 2023/Winter 2024
Course: Geography W12: Maps and Spatial Reasoning
- Redesigned the course and developed quiz, lab, and course material for a 10 week quarter
- Led the laboratory portion of this course in which both labs and presentations were utilized to familiarize students with the various properties of maps

Thesis Advisor — September 2024- June 2025
- Mentored Lainey Djajkusuma in her undergraduate thesis titled: *Co-Benefits in Green Infrastructure Site Selection and Policy: A Case Study of Goleta, California*

Teaching Assistant — Spring 2022
Course: Geography 5: People, Place, and the Environment
- Led the section portion of this course for 76 students in which course assignments were introduced, exam material was reviewed, and lecture material was explored in more depth through the use of a discussion activity

Lehman College (CUNY) — Bronx, NY
Internship Advisor — October 2023-June 2024
- Advise an undergraduate student for a 13 hour a week/ 13 week internship in data entry, learning R/RStudio, and making ArcGIS Story maps and met with them weekly

LaGuardia Community College — Queens, NY
Adjunct Laboratory Instructor — Summer 2020/Summer 2021
Course: SCG150 Introduction to Geographic Information Systems

- Led the laboratory portion of this course in which both labs and presentations were utilized to familiarize students with the GIS software to accomplish course goals
- Helped transition the curriculum to an online format due to COVID-19

Bronx Community College Geospatial Center of the CUNY CREST Institute   Bronx, NY
NSF-ATE Geospatial Workshop Instructor   May 2019-August 2019
- Taught high school workshops that aimed to give participants knowledge about spatial concepts, the ability to gain hands on skills, and meet experts in the geospatial industry

Summer Workforce Research Internship Mentor   June 2019- August 2019
- Mentored seven Bronx high school students in a geospatial research project in which they compared the quality of life in various U.S. counties by using socioeconomic variables
- Facilitated various career workshops to help prepare the students as they transition into their college careers by guiding them as they created their own career documents

AWARDS/HONORS

- Christopherson Geosystems Award for Excellence in Applied Geography/Earth Systems at the Association of Pacific Coast Geographers (APCG) Regional Meeting (October 2025)
- Women's Network Small Grant Recipient at the Association of Pacific Coast Geographers (APCG) Regional Meeting (October 2025)
- Dwight David Eisenhower Transportation Fellowship Recipient (2024)
- AAG Council Award for Best (Graduate) Student Paper at a Regional Division Meeting
- President's Paper Award for Outstanding Doctoral Paper at the Association of Pacific Coast Geographers (APCG) Regional Meeting (October 2023)
- Eugene Hoerauf Scholarship Recipient at the Association of Pacific Coast Geographers (APCG) Regional Meeting (October 2023)
- Featured Geospatial Student Spotlight at eSpatially on July 2021 (https://espatiallynewyork.com/2021/07/06/geospatial-student-spotlight-caitlyn-jeri-linehan/)
- Awarded 1st place for the Graduate Poster Session at the 2020 Middle States AAG
- Featured Student Work of Lehman College's Department of Earth, Environmental, and Geospatial Sciences (http://www.lehman.edu/academics/eggs/student-work.php)
- Posse Foundation Full-Tuition Leadership Scholarship (2015-2019)

PUBLICATIONS

1. Linehan, C.J., Nelson, T. (2026). The Uneven Geography of Outdoor Dining: Implications for Pedestrian Spaces (In progress)
2. Linehan, C.J., Nelson, T. (2026). Who Gains, Who Loses? Equity Impacts of Park Closures and Open Streets (In progress)
3. Linehan, C.J., Nelson, T., Dodge, S., Fast, V. (2026). A Systematic Review of Crowdsourced Pedestrian Data (In progress)
4. Heidger, L., Nelson, T., Ferster, C., Linehan, C.J., Kedron, P., Dodge, S. (2026) Expanding Crowdsourced Data Modeling to Pedestrian Volumes (In progress)
5. Linehan, C.J., Nelson, T., Cohen, A. (2025). Improving the denominators of bicyclist and pedestrian safety rankings (In progress)
6. Linehan, C., & Nelson, T. (2025). Predictors of Biking Behavior Changes after a Safety Incident. Findings. https://findingspress.org/article/142431-predictors-of-biking-behavior-changes-after-a-safety-incident

7. Linehan, C. J., Nelson, T., Bailey, C. V., Gel, E., Coonrod, D. V., & Roth, C. K. (2022). Sentinel surveillance of SARS-CoV-2 rates and equity impacts using labor and delivery patients in Phoenix, Arizona. *Preventive Medicine Reports*, *30*, 102049. https://doi.org/10.1016/j.pmedr.2022.102049

8. Linehan, Caitlyn J. (2021). "An Application of the SLEUTH Model: Future Urbanization of Davidson County, Tennessee". CUNY Academic Works. https://academicworks.cuny.edu/le_etds/13

REPORTS

1. Nelson, T, Linehan, C. J., Cohen, A. (2022). Improving the denominator of OTS rankings for bicycle and pedestrian safety. *Office of Traffic* Safety (Report)

2. Linehan, C., Robson, L., Lei, Y., Wallace, J., & Bierman, M. (2021). *2021 Open Space Profiles*. New Yorkers for Parks.https://www.ny4p.org/data-and-research/research-library/open-space-profiles (Report)

TALKS AND PRESENTATIONS

Annual Meeting: Association of Pacific Coast Geographers, Santa Clarita, CA   October 2025
Title: Who Gains, Who Loses? Equity Impacts of Park Closures and Open Streets

2025 American Association of Geographers Annual Meeting, Detroit, MI   March 2025
Title: A Systematic Review of Crowdsourced Pedestrian Data

2024 American Association of Geographers Annual Meeting, Hilo, HI   March 2024
Title: Improving the denominator of safety rankings for bicycle and pedestrian safety

Annual Meeting: Association of Pacific Coast Geographers, Ventura, CA   October 2023
Title: Improving the denominator of safety rankings for bicycle and pedestrian safety

Geography Colloquium, University of California, Santa Barbara   November 2022
Title: Improving the representativeness of VGI (volunteered geographic information) data: a pedestrian mobility case study

Big Data Course, Macalester College, (Remote)   December 2020, 2021
Title: My Academic Journey

2nd Annual UCGIS Conference, (Remote)   October 2021
Title: Using Labor and Delivery to Examine Population Disparities in the Covid-19 Pandemic.

Environmental and Resource Science Colloquium, Nevada State College (Remote) September 2021
Title: Exploring the Many Facets of Greenspace.

Showcase of Lehman GISc Students' Capstone Projects (hosted by GISMO), (Remote)   July 2021
Title: An Application of the SLEUTH Model: Future Urbanization of Davidson County, Tennessee.

2020 Annual GIS day (hosted by GISMO and CIESIN), (Remote)   November 2020
Title: Accessibility and Connectivity of Bike Paths to Select Facilities for Bronx, NY Residents.

Annual Meeting: Middle States American Association of Geographers, (Remote)   October 2020
Title: Accessibility and Connectivity of Bike Paths to Select Facilities for Bronx, NY Residents

RESEARCH AND WORK EXPERIENCE

Center for Spatial Studies and Data Science   Santa Barbara, California
GIS for Journalism and Public Policy Fellow   Summer 2025-Present
- ▪ Conduct GIS analysis to produce maps that are used in relevant opinion pieces

University of California, Santa Barbara & Davis   Santa Barbara, California
Research Assistant   March 2024- Present
- ▪ Compared theoretical and data-driven modeling approaches for evaluating active transportation infrastructure impacts in Santa Barbara and Santa Cruz; assessed predictive accuracy and practical

utility of statewide versus locally-calibrated models for monitoring changes in walking and bicycling volumes

University of California, Santa Barbara   Santa Barbara, California
Research Assistant   September 2021- November 2023
- Estimate the amount of trips taken by active transportation modes across California counties and cities to address barriers to the safety of underserved road users such as pedestrians and bicyclists

Research Assistant   June 2021- September 2022
- Analyze COVID-19 cases present in two hospitals within the labor and delivery department in Arizona to observe socioeconomic trends

Esri   San Diego, California
Student Assistant at the 2022 User Conference   July 2022- July 2022
- Aid Esri staff with conference registration, monitoring of workshops, and running of the Esri store

Lehman College (CUNY)   Bronx, NY
Lab Tutor within the Department of Geospatial Sciences   January 2020-May 2021
- Tutor an array of undergraduate and graduate students for eight hours a week in a wide range of GISc classes, from introductory to advanced

Columbia University, Earth Institute, CIESIN   Palisades, NY
Intern   August 2020- December 2020
- Analyzed VIIRS nighttime lights data in both Oaxaca, Mexico and Nashville, TN to explore the relationship between nighttime luminescence imagery and population density
- Digitized building outlines throughout New York State to assist in generating flood risk layers

New Yorkers for Parks   Manhattan, NY
Research and Planning Intern   September 2019-August 2020
- Used spatial analyses to create the 2020 Community Board District maps, which aim to serve advocacy groups by using ArcGIS in which the public open spaces and other quality of life measures such as health and socioeconomic statistics are displayed. *Publication: http://www.ny4p.org/data-and-research/research-library/open-space-profiles*
- Collected field data for the Brownsville, Brooklyn community in order to find alternative sites for community members to organize due to community center closures

Trinity College   Hartford, CT
Center for Student Success: Career Development Intern   August 2018-May 2019
- Facilitated workshops and provided feedback on career topics such as LinkedIn, résumés, and cover letters

Trinfo Cafe: Computer Literacy Instructor   January 2016-May 2019
- Taught beginning, intermediate, and advanced computer literacy classes to residents of Hartford and other patrons
- Performed administrative duties in the café which provides technological resources and classes to Hartford residents

Wildlife Conservation Society, Bronx Zoo & Central Park Zoo   New York City, NY
Visitor Research Assistant   May 2018-August 2018
- Collected visitor data using surveys, interviews, and behavioral observations to evaluate visitors' experiences
- Worked independently and as a part of a team to utilize technology to analyze visitor data in order to portray visitors' interest, motivations, and behaviors

Semester in Environmental Science, Marine Biological Laboratory   Woods Hole, MA
Independent Research   September 2017-December 2017

Focus: *Tracking the reallocation of NSC, Carbon, Nitrogen and relative Greenness of Quercus coccinea and Ilex opaca during senescence;* Advisor: Dr. Mary Heskel
- Tracked the reallocation of sugars, starches, carbon, and nitrogen and the decline of greenness on an individual leaf level and on the canopy level in the late season in deciduous and evergreen trees

SERVICE

UCSB GIS Faculty Hiring Search Committee   Santa Barbara, CA
Student Representative   September 2023 - May 2024
- Reviewed applications and interviewed applicants

UCSB Graduate Student Advisory Committee for Department Chair   Santa Barbara, CA
Cohort Representative   September 2022 – June 2025
- Gathered and presented feedback from my cohort in order to communicate the needs of my peers and serve as a bridge between students and the department chair
- Developed an advisory survey to help collect feedback about graduate student experiences with their advisors

Letters to a Pre-Scientist   Remote
STEM Professional   August 2020-May 2021
- Wrote letters to a middle school student from Chicago who is interested in STEM in order to help demystify STEM pathways and encourage them to explore interests of their own

SKILLS/TRAINING

Spatial Analysis: Familiarity with Remote Sensing Imagery, ArcMap, ArcPro, QGIS, Sentinel Application Platform (SNAP), Trimble Juno | *Coding:* R, Python (Intermediate) | *Design:* Adobe Illustrator, Adobe Photoshop | *Academic:* City University of New York's Academic Training: Teaching for Distance Learning due to COVID-19 (Summer 2020)