

Caitlyn Jeri Linehan

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OVERVIEW

I am currently in pursuit of a PhD in Geography from the University of California, Santa Barbara. My goal is to utilize spatial sciences (GISc and remote sensing) to study walkability and green space access in urban areas as well as urban ecological resiliency. Another goal of mine is to introduce urban teens to the natural environment to help inspire others to pursue a career in sustainable fields.

EDUCATION

University of California, Santa Barbara

Santa Barbara, California

PhD in Geography

Expected June 2026

Lehman College (CUNY)

Bronx, NY

Master of Science in Geographic Information Science

Received May 2021

GPA: 4.00/4.00; 40 credits

Relevant Coursework: Environmental Modeling and Spatial Analysis, Intro to Programming for GISc, Geostatistics and Spatial Analytical Concepts, Raster Analysis, & Cartography

Thesis: An Application of the SLEUTH Model: Future Urbanization of Davidson County, Tennessee; Advisor: Dr. Yuri Gorokovich

Available at: https://academicworks.cuny.edu/le_etds/13/

Trinity College

Hartford, CT

Bachelor of Science in Environmental Science

Received May 2019

GPA: 3.36/4.00

Study Abroad: DIS, Denmark; Focus: Polar Biology; Marine Science (S' 18)

Marine Biological Laboratory, Woods Hole, MA; Focus: Environmental Science (F' 17)

RESEARCH

University of California, Santa Barbara

Santa Barbara, California

Research Assistant

June 2021- Present

- Analyze COVID-19 cases present in two hospitals within the labor and delivery department in Arizona to observe any geospatial and socioeconomic trends

Research Assistant

September 2021- Present

- Estimate the amount of trips taken by active transportation modes in four pilot cities in California with the goal of addressing barriers to the safety of vulnerable road users such as pedestrians and bicyclists.

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 as a part of a team to assist in generating flood risk layers

New Yorkers for Parks

Manhattan, NY

Research and Planning Intern

September 2019-August 2020

- Created 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. *Expected Publication: November 2020*
- Collected field data for the Brownsville, Brooklyn community in order to find alternative sites for community members to organize due to community center closures

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 Heskell

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

TEACHING EXPERIENCE

University of California, Santa Barbara Santa Barbara, California
Teaching Assistant Fall 2021/Winter 2022

Course: Geography W12: Maps and Spatial Reasoning

- Led the laboratory portion of this course in which both labs and presentations were utilized to familiarize students with the various properties of maps

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

RELEVANT WORK EXPERIENCE

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

Trinity College

Hartford, CT

Center for Student Success: Career Development Intern

August 2018-May 2019

- Facilitated workshops and provided feedback on an array of 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

RELEVANT WORK EXPERIENCE (CONTINUED)

Princeton-Blairstown Center

Hardwick, NJ

Outdoor Experiential Education Facilitator

Summer 2016 & 2017

- Facilitated urban tri-state students in groups of 6-13 on adventure-based curriculum including high and low rope courses, environmental education, and waterfront activities in order to teach them how to integrate social-emotional skills into their daily lives

TALKS AND PRESENTATIONS

- Linehan C. (2020, October). *Accessibility and Connectivity of Bike Paths to Select Facilities for Bronx, NY Residents*. Poster presented at the annual meeting of the Middle States American Association of Geographers, Hofstra University (Remote)
- Linehan C. (2020, November). *Accessibility and Connectivity of Bike Paths to Select Facilities for Bronx, NY Residents*. Talk presented at the 2020 annual GIS day, “Discovering the World Through GIS in NYC!” , hosted by GISMO and CIESIN (Remote)
- Linehan C. (2021, July). *An Application of the SLEUTH Model: Future Urbanization of Davidson County, Tennessee*. Talk presented at the “Showcase of Lehman GISc Students’ Capstone Research Projects,” hosted by GISMO (Remote)
- Linehan C. (2021, September). *Exploring the Many Facets of Greenspace*. Talk presented at the “Showcase of Lehman GISc Students’ Capstone Research Projects,” hosted by GISMO (Remote)
- Linehan C. (2021, October). *A Covid-19 Health Equity Tool: Using Labor and Delivery to Examine Population Disparities in the Covid-19 Pandemic*. Talk presented at the 2nd Annual UCGIS Conference (Remote)
- Linehan C. (2021, December). *My Academic Journey*. Talk presented within the Big Data Course at Macalester College (Remote)

AWARDS/HONORS

- Posse Foundation Full-Tuition Leadership Scholarship (2015-2019)
- Featured Student Work of Lehman College’s Department of Earth, Environmental, and Geospatial Sciences (<http://www.lehman.edu/academics/eggs/student-work.php>)
- Awarded 1st place for the Graduate Poster Session at the 2020 Middle States AAG
- Featured Geospatial Student Spotlight at eSpatially on July 7th, 2021 (<https://espatiallynewyork.com/2021/07/06/geospatial-student-spotlight-caitlyn-jeri-linehan/>)

EXTRACURRICULAR ACTIVITIES/SERVICE

Letters to a Pre-Scientist

Remote

STEM Professional

August 2020-May 2021

- Write 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

EXTRACURRICULAR ACTIVITIES/SERVICE (CONTINUED)

La Voz Latina (Latin Cultural Organization at Trinity College)

Hartford, CT

Treasurer (Member)

Fall 2015-Spring 2019

- Helped organize and plan events that both helped to raise awareness about Latin American culture throughout campus and fostered a safe space and community for Latinx students
- Oversaw LVL's annual budget while helping to audit and manage daily club transactions

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)