

ALETHA SPANG

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EDUCATION

- 2022 **Master of Landscape Architecture** and **GIS Certificate**
University of Colorado Denver, Denver, CO.
Thesis: *Space, Play, and Resistance: Reconsidering Spatial Design from the Bottom Up.*
- 2017 **Bachelor of Science**
Biology (major), Environmental Science and Physics (minors).
Roger Williams University, Bristol, RI.
Honors thesis: *Mechanisms of algal and microplastic particle motion in the feeding current of Pseudodiaptamus pelagicus.*

RELATED EXPERIENCE

- 2022- Present **GIS Specialist**
Department of Geography, Dartmouth College
- 2020- 2022 **Geospatial Consultant**
Facility for Advanced Spatial Technology, University of Colorado Denver
- 2020- 2022 **Research Assistant**
Learning Landscapes and University Technical Assistance Program,
University of Colorado Denver

HONORS AND AWARDS

- 2025 DAT/Artathon Fellow
- 2023 Student Research Award Honorable Mention
Council of Educators in Landscape Architecture
- 2021 Student Merit Award
American Society of Landscape Architects CO/WY
- 2021 LAF Olmsted Scholar
Landscape Architecture Foundation
- 2021 Green Roof Professional Fellowship
Green Roofs for Healthy Cities
- 2021 Segals AmeriCorps Education Award
- 2017 Outstanding Senior Award
Roger Williams University, Department of Biology

PROFICIENCIES

ArcGIS Pro	● ● ● ● ●
ArcGIS Online	● ● ● ● ●
Adobe Illustrator	● ● ● ● ●
Adobe InDesign	● ● ● ● ●
Adobe Photoshop	● ● ● ● ●
AutoCAD	● ● ● ● ●
Google Earth Engine	● ● ● ● ●
HTML/CSS	● ● ● ● ●
JavaScript	● ● ● ● ●
Metashape	● ● ● ● ●
Python	● ● ● ● ●
QGIS	● ● ● ● ●
R/RStudio	● ● ● ● ●

PEER-REVIEWED PUBLICATIONS

- In Progress “The Rural Rivers Project: A Community-Based Case for Critical Remote Sensing in Disaster Studies”. **Spang, A.**, Alvarez-Leon, L., Kelly, S., Boke, C.
- In Progress “When COVID Brought Tech to Miami: Urban Transformation, Climate Risk, and the Birth of an Industrial Cluster”. **Spang, A.**, Alvarez-Leon, L., and Ishika Jha.
- In Progress “Spatial Transformation Through Everyday-Event Relationships: A Hermeneutic-Dialectical Framework for Disasters and Beyond”. **Spang, A.**
- Under Review “Playing with Other Worlds: Rethinking the Playground in the Development of Children’s Politics”. **Spang, A.** Children’s Geographies.
- Under Review “Assessing the 2023 Floods in Rural Vermont: Multimodal Methodology and Community Science for Mitigation in the Black River Valley”. Boke, C., Kelly, S., **Spang, A.**, Sullivan, H., Valenciano Coronado, D., Reddy, E., Bezanson, N., Silvestro, A. Natural Hazards Center Weather Ready Report.
- 2022 “Contested Storytelling in Public Space: An Analysis of Art and Equity in Pueblo, Colorado”. **Spang, A.** Confluence: the Student Journal of Geography and Environmental Science (1). University of Colorado Denver.

CONFERENCE PRESENTATIONS

- 2025 “Mapping Beyond Boundaries: Creative Geographies as Tools for Interdisciplinary Research and Teaching”. Panel with Thien-Bui Kim at the a2ru conference. Madison, Wisconsin.
- 2024 “Teaching with AI: Critical GIS Education for an Uncertain Future”. Northeast Arc User Conference, Burlington, VT.
- 2024 “Integrating AI into the GIS Curriculum”. Esri User Conference, San Diego, CA.
- 2022 “Subverting Spaces: the tactics and spatial ordering of civil resistance movements”. American Association of Geographers Annual Meeting, Denver, CO.

GRANTS

- 2025 “Cooperation, Communication, and Networks in the Context of Inland Riverine Flooding”. NSF Senior Cultural Anthropology Grant (\$350,000), PI Dr. Charis Boke, co-PI with Dr. Sarah Kelly.
- 2025 “Building a Community Science Tool for Inland Flooding in Vermont”. Natural Hazards Center Weather Ready Research to Operations Grant (\$9,900), PI Dr. Sarah Kelly, co-PI with Dr. Sarah Kelly.
- 2025 “Quilting for Resilience: Stitching Together Stories of Mutual Aid from Vermont’s Floods”. Hopkins Center Arts Integration Grant (\$11,850), PI Dr. Sarah Kelly, co-PI with Dr. Charis Boke.

2024 “Mutual Aid for Resilience: Mapping Vermont’s 2023 Flood-Response Networks”.
Natural Hazards Center Weather Ready Grant (\$10,000), PI Dr. Charis Boke, co-PI with Dr.
Sarah Kelly.

TEACHING

2022- Present **Lab Instructor**, Dartmouth College.
Introduction to Geographic Information Systems
Urban Applications of GIS
Environmental Applications of GIS
GIS in Public Health
Geovisualization

2022- Present **Teaching Assistant**, Dartmouth College.
Critical Analysis in GIS
Introduction to Geospatial Thinking
Web Mapping and Applications

2020- 2022 **Graduate Teaching Assistant**. University of Colorado Denver.
Introduction to GIS
Introduction to GIS for Landscape Architects

2017 **Undergraduate Teaching Assistant**, Roger Williams University.
Biology I

INVITED GUEST LECTURES

2025 “Hand-drawn Map Design”. Geovisualization, Dartmouth College.

2024 “The Rural Rivers Project”. Designing for Disaster Seminar. Colorado School of Mines.

2024 “Quantitative Methods in Health Geographies”. Introduction to Human of Geography,
Dartmouth College.

2024 “Introduction to StoryMaps”. Food and Power. Dartmouth College.

2023 “VGI and OpenStreetMap”. Intro to Geospatial Thinking. Dartmouth College.

2023 “Coordinate Systems and Projections”. Critical Analysis in GIS. Dartmouth College.

2023 “Countermapping and Alternative Cartographies”. Critical Analysis in GIS. Dartmouth

2023 “Introduction to StoryMaps”. Global Cities. Dartmouth College.

2023 “Mapping as Storytelling”. Social Justice and the City. Dartmouth College.

WORKSHOPS AND TRAININGS LED

- 2023 Two Day GIS Intensive Training. Salem Sound Coastwatch.
- 2023 “Creative Cartographies and Care”. Department of Geography, Dartmouth College.
- 2023 “Storymapping in ArcGIS and Beyond”. Department of Geography, Dartmouth College.

SERVICE

- 2024- Present Department of Geography Wellness Committee, Dartmouth College.
- 2024 Northeast Arc User Conference planning committee and Educator’s Day planning committee.
- 2020- 2022 Justice, Equity, and Diversity Working Group, University of Colorado Denver

PROFESSIONAL DEVELOPMENT

- 2022- Present Dartmouth Center for Academic Learning (DCAL) Faculty Workshops:
Integrating Well-being into Teaching & Learning, Teaching in the Era of Generative AI, ChatGPT and AI in the Classroom, Grading for Equity, Unpacking Ungrading
- 2022- Present Dartmouth Research Computing Workshops:
Software Carpentry: Plotting and Programming in Python; Software Carpentry with Python, Unix, GIT; Data Visualization for Health and Biology Research; Data Visualization in Python; Python for Data Science; Python Scripting for Geospatial Data Science; R for Deep Learning.