Julia Cardwell

https://jucardwell.github.io/

University of North Carolina, Chapel Hill Department of Geography
Southeast Regional Climate Center
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EDUCATION

Ph.D. Student, Department of Geography   *Expected May 2025*
UNC Chapel Hill   *Chapel Hill, NC*
   Advisor: Dr.Charles Konrad
M.A. Geography   *Dec 2021*
UNC Chapel Hill   *Chapel Hill, NC*
   Advisor: Dr. Charles Konrad
   Thesis Title: Trends in Recovery Aid Concentration after Hurricane Florence in North Carolina
B.A. Environmental Studies   *June 2019*
Davidson College   *Davidson, NC*
   Advisor: Dr. Fuji Lozada
   Thesis Title: Flooding and Floodplain Management as Part of the Waterscape: Flows of Water and
   Power in Charlotte, North Carolina
   Minor: Data Science

CURRENT POSITIONS

Graduate Research Consultant   *Spring 2023*
   The Blue Planet: Earth Systems - Dr. Erica Wise   *UNC Chapel Hill*
Data Verification Specialist   *Summer 2022 - present*
   Odum Institute   *UNC Chapel Hill*
Graduate Research Assistant   *Summer 2022, Fall 2022*
   Southeast Regional Climate Center   *UNC Chapel Hill*

TEACHING EXPERIENCE

Introduction to Geographic Information   *Spring 2023*
   Teaching Assistant - Dr. Javier Arce-Nazario
Environmental Conservation and Global Change   *Spring 2022*
   Teaching Assistant - Dr. Aaron Moody
Introduction to Spatial Data Science   *Fall 2021*
   Teaching Assistant - Dr. Paul Delamater

AWARDS AND HONORS

Honorable Mention, Graduate Research Fellowship Program, National Science Foundation   *2022*
Phi Beta Kappa, Davidson College   *2019*
Environmental Studies Outstanding Senior Award, Davidson College   *2019*

GRANTS AND FELLOWSHIPS

Summer Research Grant, UNC Chapel Hill , $1500   *2021*
Graduate Merit Fellow, UNC Chapel Hill, $20,000   *2020-2021*
Weiss Urban Livability Fellow, UNC Chapel Hill , $4,000   *2020-2021*
Conference Travel Grant, Davidson College, $2,000   *2019*
Duke Endowment Resiliency Grant, Davidson College, $500   *2019*
Summer Internship Grant, Davidson College, $800   *2019*

Research Interests

Disasters - Extreme events; Social vulnerability; FEMA; Federal recovery aid
Geographic Information Science (GIS)

Research

Peer Reviewed

Cardwell, J. (2022). Community perceptions of a floodplain buyout program in Charlotte, North Carolina. Natural Hazards, 1-20.

Cardwell, J. (2022). Disruption to EMS Service During Flood Scenarios in Western North Carolina. Journal of Rural Social Science, 46, 6.

Cardwell, J. & Cowan, K. (2022). Local News Sentiment Towards FEMA Recovery Efforts after Hurricane Florence in North Carolina. Disasters,

Cardwell, J. (2022). Examining the shifting role of the human in disaster studies. Journal of the Bulgarian Geographical Society, 46, 51-55.

Cardwell, J. & Konrad, C. E. (2022). Trends in recovery aid concentration following Hurricane Florence in North Carolina: exploring the role of physical damage, community vulnerability, and Hurricane Matthew. Environmental Hazards, 1-23.

Cardwell, J. (2022). Examining the shifting role of the human in disaster studies. Journal of the Bulgarian Geographical Society, 46, 51-55.

Cardwell, J.(2021). Trends in Flood Insurance Behavior Following Hurricanes in North Carolina. North Carolina Geographer, 20, 2-12.

Publications Under Review

Other Publications

Martin, A., **Cardwell, J**., Mundt, J., Kramer, R., Beckham, T. 2019. North Carolina Climate Risk Assessment and Resilience Plan, Chapter 4: Climate Justice, State of North Carolina

Conferences and Talks

Trends in Recovery Aid Concentration in North Carolina Following Hurricane Florence. Presented at the 2022 Annual Meeting of the American Association of Geographers. Feb 2022. Virtual

Trends in NFIP (National Flood Insurance Program) Participation after Major Hurricanes in North Carolina. Presented at the 2021 Annual Meeting of the North Carolina Geographical Society. 12 March 2021. Virtual

Flooding and Floodplain Management as Part of the Waterscape: Flows of Water and Power in Charlotte, North Carolina. Presented at Verna Miller Case Research and Creative Works Symposium. 7 May 2019. Davidson, North Carolina.

The Farmers' Market and the Local Economy: Testing this Relationship in the Town of Davidson, NC. Presented at Verna Miller Case Research and Creative Works Symposium. 7 May 2019. Davidson, North Carolina

Measuring Flood Risk: Normalizing Inequality in Charlotte, NC. Presented at 79th Annual Meeting of the Society for Applied Anthropology, 19-23 March 2019. Portland, Oregon.

Additional Work Experience

Data-Driven EnviroLab, Department of Public Policy, UNC Chapel Hill 2021
    Graduate Research Assistant
North Carolina Department of Environmental Quality, Raleigh NC 2019-2020
    Program Coordinator
Davidson Lands Conservatory, Davidson NC 2019
    GIS Analyst
Jay Hurt Hub for Entrepreneurship, Davidson College, Davidson NC 2019
    Data Analyticz Consultant

University Service

Co-President, Graduate Association of Geography Students, UNC-CH 2022-2023
Graduate Student Representative,Geography Department Graduate Committee, UNC-CH 2020-2022

Affiliations

American Association of Geographers
North Carolina Geographical Society

Programming Skills

Languages: Python, R, VB.NET, JavaScript
Technologies: ArcMap, ArcGIS Pro, ArcGIS Online, QGIS, Google Earth Engine, ENVI, SPSS