

Jake Schwartz

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EDUCATION

University of North Carolina at Chapel Hill, Chapel Hill, NC Graduation May 2026

Master of Science in Information Science

Relevant Coursework: Information Analytics, Programming for Information Science II, Distributed Knowledge Graphs, Methods of Data Analysis, Systems Analysis, Text Mining

University of North Carolina at Chapel Hill, Chapel Hill, NC Graduation May 2025, with distinction

Bachelor of Science in Environmental Science - Quantitative Energy Systems Track GPA: 3.69

Relevant Coursework: Sustainable Energy Systems, Energy Modeling for the Environment, Energy and Material Flows in the Environment, Intro to Decision Analytics, Database Concepts and Applications

Honors and Awards: Dean's List: Fall 2021, Fall 2022, Fall 2023, Spring 2024, Fall 2024, Spring 2025

TECHNICAL SKILLS

Environmental Analysis: Life Cycle Assessment, Energy Modeling, Greenhouse Gas Accounting, Renewable Energy Siting

Programming Languages: Python, R, SQL

Data Visualization and Analysis: ArcGIS, QGIS, NumPy, Pandas, Scikit-learn, NLTK

Tools: Microsoft Excel, Word, PowerPoint, Google Workspace

RELEVANT EXPERIENCE

Paces, Chapel Hill, NC (remote) October 2025-Present

Data Operations Intern

- Collect, manage, and organize large geospatial datasets from ArcGIS REST servers and live maps to support environmental and hazard mapping for state and federal use
- Perform data quality checks, documentation, and analyses to prepare findings for colleagues

Sonder Energy, Chapel Hill, NC November 2023-August 2024

Land Siting and Research Intern

- Supported site selection and due diligence for 10–200 MW utility-scale solar projects using GIS (ArcGIS, QGIS) and environmental screening criteria
- Researched and summarized local, state, and federal environmental and zoning regulations relevant to project feasibility
- Managed and documented land and regulatory data to support project development decisions

Environmental Defense Fund, Chapel Hill, NC (remote) June 2023-August 2023

Electric Bike Research Intern

- Compiled and presented a technical report on the potential for increased e-bike usage to reduce greenhouse gas emissions
- Attended weekly meetings with supervisors, interns, and members of the science team

PROJECTS

Exposomics Knowledge Graphs, Chapel Hill, NC September 2025-Present

Capstone in Information Science

- Worked in a team of 6 to develop a knowledge graph on exposomics, paired with existing knowledge graphs
- Consulted with professors and professionals to gather insights on applications of knowledge graphs in the natural sciences

Small Modular Reactor for Hydrogen, Chapel Hill, NC January 2025-May 2025

Capstone in Environmental Science

- Worked with partner to develop a 50-page report for a theoretical General Atomics EM² small modular reactor to power green hydrogen and presented project to colleagues

LEADERSHIP AND COMMUNITY INVOLVEMENT

UNC Renewable Energy Special Projects Committee, Chapel Hill, NC September 2022-Present

Member, Voting Member (August 2025-Present)

- Contributed to renewable energy and energy-efficiency projects on campus such as solar panel installations, an energy savings dashboard, and electric groundskeeping equipment
- Met with colleagues and university officials to discuss stakeholder needs and budgeting, and presented final projects to peers

UNC Environmental Honors Fraternity, Epsilon Eta Chapter, Chapel Hill, NC August 2022-December 2023

- Attended weekly meetings and networking and speaker events featuring industry professionals

UNC Club Ultimate Frisbee Team, Chapel Hill, NC August 2021-Present

- Practice 4+ times a week, go to 10 tournaments a year, and have won 3 national championships (2021, 2022, 2023)