

Lily Houtman | lhoutman@wisc.edu
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EDUCATION

University of Wisconsin – Madison: Cartography and GIS, B.S. (Honors); Anthropology, B.S. (Graduation: Spring 2022)
Dean's List, Fall 2018 to Fall 2020, GPA 4.0
Thesis: *Mapping Presidential Elections: An Empirical Analysis of Effective Design Techniques*

CARTOGRAPHIC AND DATA VIZ EXPERIENCE

	YEAR(S)
<u>Co-Author for Interactive Cartography Textbook, UW-Madison Cartography Lab</u>	2021-Present
<i>Collaborate with academics and other students to design an open-source interactive cartography reference manual to teach cartography, graphic design, HTML/CSS, GitHub, and JavaScript to a general audience</i>	
<u>Data and Graphics Journalist at The Daily Cardinal</u>	2020-Present
<i>Collaborate with other student journalists to create visual stories using ArcGIS, Adobe Illustrator, Tableau, and R; follow guidelines of journalists to create supplementary graphics to assist with stories</i>	
<u>Undergraduate Lab Assistant for Dr. Robert Roth, Professor of Cartography</u>	2020-Present
<i>Use the book Mapping for a Sustainable World to create GIS training materials and reference guides for a broad audience; collaborate with other members of the UN Geospatial team to improve materials</i>	
<u>Student Lab Assistant at UW-Madison Cartography Lab</u>	2020-Present
<i>Create maps for diverse clientele using ArcGIS and Adobe Illustrator, with Microsoft Excel for analysis; problem solve with clients to produce quality maps; collaborate with other students and designers</i>	
<u>Education Intern at Green Bay Botanical Garden</u>	2020
<i>Implement the use of maps and graphics in all-age educational programs; create maps and graphics using Adobe Illustrator and QGIS; use plain language to communicate science in Facebook Live videos</i>	
<u>Field Assistant at Swartkrans Paleoanthropology Field School</u>	2019
<i>Gain real-world field experience in the physical sciences, including data cataloguing and cleaning; use of total station technology to accurately record geographic information for future use</i>	
<u>Undergraduate Lab Assistant for Dr. Sarah Clayton and Dr. John Hawks, Anthropology</u>	2019-2020
<i>Collaborate with non-cartographers to process data for maps created in QGIS and Adobe Illustrator; synthesize archaeological field data for future research, with an emphasis on student-driven data analysis</i>	
OTHER SCIENTIFIC EXPERIENCE	YEAR(S)
<u>Curation Intern in the Departments of Anthropology, Geology, and Zoology, UW Madison</u>	2019-2020
<i>Cross-reference databases to update catalogue records for fossils, rocks, modern bones, and casts; edit database records for consistency; plan outreach materials to communicate science to a broad audience</i>	
<u>Program Assistant for GreenHouse Learning Community</u>	2019-Present
<i>Design and teach coursework for first-year students relating to natural resources and the environment; verbally and orally communicate scientific concepts to students, both independently and with a team</i>	
<u>Collections Intern at the Neville Public Museum</u>	2019
<i>Plan exhibits for long-term public view; prepare historical collections for storage with an emphasis on data collection (condition, location, history); collaborate with other staff to catalogue consistently</i>	

AWARDS	YEAR(S)	PROFESSIONAL ASSOCIATIONS	YEAR(S)
<u>Hilldale/McPherson ERI Award</u>	2021-2022	<u>Phi Beta Kappa Academic Honor Society</u>	2021-Present
<u>Barbara Bartz Petchenik Award</u>	2020	<u>North American Cartographic Information Society</u>	2020-Present

PUBLICATIONS

Roth RE, CM Sack, G Baldrice-Franklin, Y Chen, R Donohue, **L Houtman**, T Prestby, R Tolochko, and N Underwood. 2021. [Web Mapping: A Workbook for Interactive Cartography and Visualization on the Open Web](#). Version 0.1. University of Wisconsin Cartography Laboratory: Madison, WI. DOI: [10.5281/zenodo.4032935](https://doi.org/10.5281/zenodo.4032935)

SKILLS

JavaScript (D3, Leaflet) | HTML/CSS | Github | ESRI Software (ArcMap, ArcGIS Pro, ArcGIS Online) | QGIS | Bootstrap | R
Adobe Creative Cloud (Illustrator, Photoshop, InDesign) | Mapbox | Microsoft Office Suite (Excel, Word, Powerpoint) |
Tableau