

Sarah Hutchinson

shutch@umich.edu | C: (734)-709-7989



Education	Columbia University , New York	
	M.A. Climate & Society	May 2022
	University of Michigan , Ann Arbor	
	M.S.E. Applied Climate	Apr 2021
	B.S.E. Climate Science and Impacts Engineering	Apr 2020
Technical Experience	Michigan Office of Climate and Energy , Lansing, MI	Apr 2022-Present
	<i>Climate Data Science Officer</i>	
	<ul style="list-style-type: none">Directed to implement the State's goal of carbon neutrality by 2050 as outlined in the MI Healthy Climate Plan, and track and report progress on the goals of the Plan to Gov. Gretchen Whitmer.Leading development on a suite of technical programs, including a statewide greenhouse gas inventory, a public-facing climate hub site, annual decarbonization progress reports, specialized work groups, and IRA and BIL-related federal funding opportunities.Facilitating internal and cross-department coordination and integration of climate-related initiatives, and programmatic design of the MI Healthy Climate Conference such as speakers, topics, and themes.Fostering new and continued academic partnerships with various midwestern Universities.	
	U.S. Environmental Protection Agency , Ann Arbor, MI	Jun 2021-Apr 2022
	<i>Student Trainee, GS-07 Level</i>	
	<ul style="list-style-type: none">Improved energy consumption modeling of light-duty electric vehicles, and integrated the results into the newest version of the Motor Vehicle Emission Simulator (MOVES).Explored how to apply this process and methodology to passenger trucks and heavy-duty vehicles.Collaborated with the National Renewable Energy Laboratory (NREL) to update start-and-soak emissions from heavy-duty vehicles.	
	Great Lakes Integrated Sciences and Assessments , Ann Arbor, MI	Apr 2020-Apr 2021
	<i>Student Climatologist and Physical Scientist</i>	
	<ul style="list-style-type: none">Pioneered research on freeze-thaw cycles (FTCs) in the Great Lakes Region, including performing data and multivariate statistical analysis to see how they have or may continue to change over time.Constructed a GLISA webpage dedicated to FTCs with these results to inform concerned stakeholders.Revised other stakeholder-facing documents, including RCP and scenario planning guides, station climatologies, and other webpages on various topics.	
Leadership Experience	American Society of Adaptation Professionals , Ann Arbor, MI	Jan 2020-Apr 2021
	<i>Climate Adaptation Project Lead</i>	
	<ul style="list-style-type: none">Spearheaded initiative to develop searchable database of climate change adaptation employment opportunities, and perform data analytics on included data.Developed multiple qualitative coding schemes with ASAP staff, coded employment data using Dedoose, and composed user guides describing how to code and classify information.Analyzed how to incorporate climate projections into demographic models to predict potential migration patterns from climate migration, and interviewed relevant stakeholders.Served as the point of contact for the NYSERDA Accelerator project, developed meeting materials and agendas, and coordinated program activities and improvement.	
	Undergraduate Engineering Student Advisory Board , Ann Arbor, MI	Sept 2018-Apr 2020
	<i>Board Member</i>	
	<ul style="list-style-type: none">Worked with the Associate Dean of Undergraduate Education to improve student life, education, and campus well-being.Coordinated with various departments to boost course instruction integrity, implement new and enhance existing student recruitment techniques, and work to advance the University's policy of diversity, equity, and inclusion.Discuss and tackle complicated issues on campus such as mental health services, dormitory and building infrastructure, sustainability policies, and water and waste management.	
Skills	Spoken Languages: Spanish (Basic)	
	Computing Languages/Software: C++, Matlab, NCL, C#, Python, Dedoose, ArcGIS, R, LaTeX	
	Organizations: Society of Hispanic Professional Engineers, Society of Women Engineers, American Meteorological Society, American Society of Adaptation Professionals	