Dr. Carl M Sack, Ph.D. résumé
www.northlandia.com

Contact

3210 Devonshire St., Duluth, MN 55806
(608) 712-8335, northlandiguana@gmail.com

Career Goals

I am a mapmaker and an educator. I have many diverse skillsets in Cartography, GIS, Graphic Design, Data Graphics and Journalism, Web Mapping, UI/UX Design, Web Development, Drones, Teaching, and Curriculum Design. I enjoy using my skills to make a positive impact on the lives of others and the world as a whole.

Education

Ph.D. Geography, University of Wisconsin-Madison (2018). Dissertation: Best Practices for Teaching Open Web Mapping Technologies.

M.S. Cartography/GIS, University of Wisconsin-Madison (2013). Thesis: Online Participatory Mapping for Landscape Values in the Bad River Watershed.

B.S. Outdoor Education/Natural History, Environmental Studies Teaching, and Biology Teaching, Northland College (2005). Graduating GPA: 3.95.

H.S. Diploma: Clark Montessori High School, Cincinnati, Ohio (2001).

Recent Work History

GIS Program Coordinator, Fond du Lac Tribal and Community College (2017-2023)
Responsibilities: Faculty for 3-4 Geography and GIS courses per semester teaching in-person, online, and hybrid formats, grant administration, mentoring and advising students, developing and modifying courses, writing curriculum and syllabi, high school and community outreach, service roles including shared governance and academic affairs, collaboration with other faculty, chairing advisory committee of industry professionals, conference travel and presentations, and general program administration.

Teaching Assistant and Course Lecturer, UW-Madison Geography Department (2011-2017)
Responsibilities: teaching lab and discussion sections, developing and delivering online lecture material, and administering assessments for Geography, Cartography, and GIS courses.

Research and Project Assistant, UW-Madison Cartography Lab. (2015-16)
Job duties: researching web mapping technologies, curriculum development for web mapping course, desktop and mobile web app development.

Editor, *Edge Effects* Digital Magazine, UW Center for Culture, History, and Environment (2016-17)
Job duties: edit and second-edit pieces from contributors and work with editorial team to recruit and schedule new material (published at http://edgeeffects.net).

Science Teacher and Paraprofessional, Lake Superior High School, Duluth, MN (2010-11)
Job duties: teaching high school science electives and assisting in a special education classroom.

Summer School Physical Science Teacher, Duluth Central High School, Duluth, MN (2010)
Job duties: teaching 9th grade physical science over a six-week credit-recovery program.

Work Samples

Samples of my work are available on my portfolio website, http://northlandia.com. I also maintain tutorials and commentary on my blog at http://northlandia.wordpress.com. My work has been featured in popular media such as *The Huffington Post* and *The New York Times,* and journals including *The Tribal College Journal, Journal of Geography in Higher Education,* and *Cartographic Perspectives.* CV available on request.

Skillsets

Teaching. More of an art than a skill. Knowing what students don't know, meeting them where they are at, and finding what inspires them to be great.

Geographic intelligence. Anyone can push buttons; not everyone can find the right ones to push. Solving spatial problems and making impactful maps—I teach it, I do it.

Collaboration. Building sustained relationships with co-workers and community members to our mutual benefit.

Communication. Writing, presenting, recording video, live videoconferencing, editing, and clear verbal expression.

Software. The ESRI ecosystem, QGIS, GDAL, PostGIS, Adobe Photoshop, Illustrator, InDesign, Acrobat, Microsoft Office suite, Wordpress, GitHub.

Code. JavaScript/HTML/CSS, PHP, Python, SQL, R.

Drone flying. I have an FAA remote pilot certificate and have flown quadcopters and fixed-wing drones for surveying and mapping.

Baking, cooking, and grilling. Not quite GBBS level, but I take pride in serving a delicious home-cooked meal, baked good, or potluck dish.