

# Kyle McNair

kwmcnair@wisc.edu • (847) 651-9328 • <http://kyle-mcnair.github.io>

## EDUCATION

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University of Wisconsin – Madison  
Master of Science – **GIS & Cartography**  
Cumulative GPA: 3.85/4.00

*Expected August 2020*

University of Wisconsin – Stevens Point (UWSP)  
Bachelor of Arts – **Geography (GIS/Human Geography Emphasis)**  
Minor – **Sociology**  
Cumulative GPA: 3.60/4.00

December 2016

## TECHNICAL SKILLS

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**GIS & Spatial Analysis:** ArcGIS, QGIS, ERDAS Imagine, R, Python, Jupyter Notebook, SQL, and PostGIS.

**Web Development:** HTML, CSS, Bootstrap, JavaScript, Leaflet, D3, and jQuery.

**Cartography & Graphic Design:** Adobe Illustrator, Photoshop, and Mapbox.

## GIS EXPERIENCES

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### Wisconsin State Cartographer's Office

*GIS Intern*

January 2020 – Present

- Work directly with UW-Madison School of Pharmacy on a research project on antimicrobial susceptibility and location.
- Utilize spatial statistics with ArcGIS and R programming to find patterns with data provided by the School of Pharmacy.
- Update external applications with new user interface upgrades with GitHub and JavaScript.

### University of Wisconsin-Madison Cartography Lab

*Project Assistant*

January 2020 – Present

- Lead developer in redesigning the new Tambopata Interactive Map Exercise by having the interface be both desktop and mobile friendly to the users.
- Project leader with 3 other students in coordinating the project timeline, design criteria, and meetings with the professor in order to facilitate the teaching goals of the website.
- Main person of contact in debugging and fixing the original version of the website before the new redesigned version was uploaded online.

### Westwood Professional Services

*GIS Specialist*

November 2018 – August 2019

- Built multiple maps designed for the ESRI Collector App in preparation for the geotechnical staff to use while collecting field work data.
- Developed geospatial data in order to deliver map products to clients involved in wind, solar, and other renewable energy projects.
- Created several GIS datasets to support the civil/electrical engineering and land survey staff.

### East Central Wisconsin Regional Planning Commission

*GIS Assistant*

June 2017 – November 2018

- Generated GIS and map products that pertain to comprehensive planning, transportation, economic development, environmental management, and other local assistance projects.
- Maintained GIS datasets and metadata for internal transportation and land use analysis.
- Assisted the transportation planning staff with sign, culvert, and pedestrian inventory field work projects for various communities within the region.

## City of Marshfield-Wisconsin

### GIS Intern

January 2017 – June 2017

- Created map products for the City Planner and GIS coordinator in support for the city's various planning and GIS projects.
- Organized and researched data to update the city's official street map GIS layer for the public works department to use as reference for future development projects.
- Conducted field work projects using ESRI Collector App for public works data inventory projects.

## UWSP Department of Geography and Geology

### GIS Technician/Cartographer Intern

October 2016 – February 2017

- Designed the new bathymetric maps for Legend Lake and its associated basins in Menominee County, Wisconsin.
- Collaborated with the Legend Lake Protection and Rehabilitation District to have the map layout be printable and foldable for the public's access.
- Presented our work with the team at the 2017 Wisconsin Land Information Association Conference.

### GIS Technician Intern

June 2016 – December 2016

- Developed an agricultural erosion vulnerability index for the Upper Couderay River Watershed in Sawyer and Washburn Counties, Wisconsin.
- Prepared map products for the Courte Oreilles Lakes Association in order to benefit the understanding of the watershed's water quality issues.
- Communicated with stakeholders of the Courte Oreilles Lakes Association to design the index that would provide best management practices to farmers affecting the watershed.

### GIS Fundamentals Student Grader

September 2016 – December 2016

- Assisted the professor in grading and evaluating over 30 students and their GIS projects by providing feedback that can improve their work and to learn from their mistakes.
- Met with the professor after every assignment deadline to assure what grading guidelines fit best for the given project.
- Granted access onto the professor's canvas course site to enter each of the student's grades.

## HONORS & AWARDS

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- **May 2020.** "The Mississippi River – North America's Physical & Cultural Phenomenon" receives 1<sup>st</sup> Place in the University of Wisconsin – Madison Geography Department Petchenik Graduate Award in Cartographic Design.
- **May 2020.** Invited Presentations as part of group of four students on "Tambopata: Protecting Forests and Empowering Communities; an Interactive Web Mapping Exercise" in 2020 Teaching and Learning Symposium, UW-Madison. [Cancelled due to COVID outbreak].
- **May 2020.** Nominated for Cross-campus International Studies Student Award for "Tambopata: Protecting Forests and Empowering Communities; an Interactive Web Mapping Exercise".
- **March 2020.** "The Mississippi River – North America's Physical & Cultural Phenomenon" receives Honorable Mention in the 2019 CaGIS Map Contest.
- **February 2020.** "The Mississippi River – North America's Physical & Cultural Phenomenon" receives 1<sup>st</sup> Place in Map Poster Category – 2020 Wisconsin Land Information Association Map Contest.
- **February 2016.** Awarded the Wisconsin Intercollegiate Athletic Conference (WIAC) Max Sparger Swimming and Diving Scholar - Athlete Award (2016).
- **May 2013-2016.** 4 time WIAC Scholastic Honor Roll.

## LEADERSHIP ROLES

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- Voted team captain of the University of Wisconsin – Stevens Point Men's Swimming & Diving Team during Sophomore, Junior, and Senior years.