# Kyle McNair

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## EDUCATION

University of Wisconsin – Madison                                                      August 2020
Master of Science – **GIS & Cartography**
Cumulative GPA: 3.87/4.00

University of Wisconsin – Stevens Point (UWSP)                              December 2016
Bachelor of Arts – **Geography (GIS/Human Geography Emphasis)**
Minor – **Sociology**
Cumulative GPA: 3.60/4.00

## TECHNICAL SKILLS

**GIS & Spatial Analysis:** ArcGIS, QGIS, ERDAS, R, Python, GDAL, Jupyter Notebook, SQL, and PostGIS.
**Web Development:** GitHub, HTML, CSS, Bootstrap, JavaScript, Leaflet, D3, MapBox GL, Scrollama, and jQuery.
**Cartography & Graphic Design:** Adobe Illustrator, Photoshop, and Mapbox Studio.

## GIS EXPERIENCES

### Wisconsin State Cartographer's Office
*Research Specialist - GIS*                                          September 2020 – Present
- Continue researching on antimicrobial resistance and spatial trends with UW-Madison School of Pharmacy.
- Develop Python scripts that organize healthcare data in order to spatially investigate human/veterinary data with antimicrobial resistance.
- Document and record all research methods in preparation for incoming student interns who will be assisting the project.

*GIS Intern*                                                        January 2020 – August 2020
- Worked directly with UW-Madison School of Pharmacy on a research project on antimicrobial resistance and location.
- Utilized spatial statistics with ArcGIS and R programming to find patterns with data provided by the School of Pharmacy.
- Geocoded HIPAA and other healthcare-related data to analyze spatial trends.

### University of Wisconsin-Madison Cartography Lab
*Project Assistant*                                                 January 2020 – August 2020
- Appointed as lead developer in redesigning the new Tambopata Interactive Map Exercise by having the interface both desktop and mobile friendly to the users.
- Took initiative as project leader by coordinating 3 other students with the project timeline, design criteria, and meetings with the project stakeholders in order to facilitate the teaching goals of the website.
- Collaborated with faculty on best practices for UI/UX in order to provide the best learning exercise experience for users in the class, and for the other 20 universities using the website.

### 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 in GIS form for reference in future city projects.
- Conducted field work projects using ESRI Collector App for public works data inventory projects.

**UWSP Department of Geography and Geology**
*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

- *May 2020*. "*The Mississippi River – North America's Physical & Cultural Phenomenon*" receives 1st 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 1st 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

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