

# Kyle Feffer

GIS Specialist and Developer

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## Summary of Qualifications

Skilled GIS professional using geospatial analysis and programming concepts to develop complex, multidisciplinary solutions within the renewable energy industry. Earned a Bachelor's of Science in Geography and a minor in Geographic Information Science. Currently working toward a Master's of Science in Cartography and GIS Development. Seeking a leadership position that will allow me help to further integrate GIS processes toward the proliferation of safe, efficient, and environmentally friendly energy and business solutions.

## Technical Skills

### GIS and Data Analysis

- Outstanding with a variety of geospatial software including both ESRI and opensource QGIS
- Demonstrated history of creating and refining geospatial models, processes, and scripts
- Exceptional web mapping skills including the creation of geospatial web applications

### Computer Science

- Proficient with Python, Java, and JavaScript as well as the ArcGIS API for both Python and JavaScript
- Experienced with using a variety of data types within the full stack of web development projects
- Active team member of several new GIS and web development projects within my current organization

## Education

### University of Wisconsin-Madison, Madison, WI

Cartography and GIS Development M.S.

4.0 GPA (through 24 of 32 credits)

**Class of August 2021**

### University of Minnesota-Twin Cities, Minneapolis, MN

Geography B.S.

Geographic Information Science Minor

4 Year Presidential Scholarship Recipient

**Class of May 2018**

## Professional Experience

### Land GIS Manager

**August 2021 to Present**

Westwood Professional Services – Land Division – Phoenix, AZ

Built a GIS department from scratch within the Land Division with a focus on project automation and web application development. Oversees all geospatial projects within the Commercial and Residential Markets across multiple offices and regions. Developed division wide geospatial standards for both desktop and web applications. Served in a client focused role working to find flexible solutions to meet the individualized needs of multiple project developers.

### GIS Analyst

**March 2020 to August 2021**

Argonne National Laboratory – National Preparedness Analytics Center – Lemont, IL

Served as a geospatial analyst working directly with the country's top researchers as well as federal sponsors on large scale geospatial analysis and projects focusing on resilience and recovery. Major work includes natural disaster simulation and response planning, COVID-19 pandemic response, and federal facility safety plans. Most notably provided work on FEMA's Resilience Analysis and Planning Tool (RAPT), simulations of resiliency plans for a Cascadia fault line earthquake, Tropical Cyclone prediction and tracking tools, as well as data collection and analysis for resilience and recovery efforts related to the COVID-19 pandemic response (to be published in UN GAR 2022). Work primarily includes multidisciplinary data analysis of critical infrastructure as well as GIS based scripting and web application development in a research based setting.

### GIS Specialist

**June 2018 to February 2020**

Westwood Professional Services – Power Generation Department – Minnetonka, MN

Worked in a fast paced, professional environment leading the development of wind and solar farms. Performed several essential spatial analysis functions including tools to assist in wetland management, maintaining spatial databases for

**References available upon request**

infrastructure, slope analysis, and served as a curator of web based GIS applications to support field staff in the collection and monitoring of construction data. Deeply enhanced my knowledge of ESRI products including the functionality of ArcGIS online as well as learned new software platforms including GlobalMapper, Civil 3D, and AutoCAD. Improved my cartographic abilities while developing an in depth understanding of GIS model development. Modified and wrote new procedures and standards for several for geospatial tasks across the company. Experienced a high intensity work environment with tight deadlines and strict requirements.

### **Geographic Information Systems and Summer Field Intern**

**May 2017 to August 2017**

**The City of Edina - Engineering Department – Edina, MN**

Poured through city records to create databases of information related to traffic management, transit programs, street reconstruction, water resources management, and storm hydrology. Additionally, took field GPS/GNSS measurements of various city infrastructure and natural resources as well as collected data for traffic studies.

### **Geographic Information Systems Intern**

**June 2016 to May 2017**

**Hennepin County - GIS Department – Minneapolis, MN**

Worked with and learned from highly experienced GIS professionals doing projects for Hennepin County departments such as the Department of Emergency Management, Public Works, and the County Attorney's Office. Projects included data management, map creation, putting together public facing applications, and more. Major projects included planning a county wide, quarterly GIS departmental meeting and working on enterprise level projects such as creating a database of historic aerial imagery by georeferencing images from 1940 to 2015.

## **Awards and Publications**

### **United Nations Global Assessment Report on Disaster Risk Reduction**

**Coming in 2022**

Will be listed as an author on a paper to that has been accepted to be published in the 2022 United Nations Global Assessment Report on Disaster Risk Reduction. This paper focuses on systemic risks to COVID-19 within the United States through the lens of social vulnerability, workforce exposure, and critical resource access. Additional, expanded versions of this paper will be published as Argonne National Laboratory Technical Reports after UN Publication.

**Link to UNGAR:** <https://gar.undrr.org/>

#### **Paper Title:**

Understanding COVID-19 public health outcomes as a function of systemic risks and community resilience: A socio-technical assessment framework to inform governance strategies on social vulnerability, workforce exposure, and resource accessibility

Lawrence Paul Lewis, Frederic Petit, Joshua D. Bergerson, John R. Hummel, Scott O. Schlueter, Kyle A. Feffer, Amanda Wagner, Braeton J. Smith, and Charles M. Macal

### **R&D 100 Award**

**September 2020**

Worked on a team that developed the Resiliency Analysis and Planning Tool (RAPT) which was selected as one of the top 100 research and development projects in 2020 in the Software/Services category.

**Application:** <https://www.fema.gov/emergency-managers/practitioners/resilience-analysis-and-planning-tool>

**Award:** <https://www.rdworltonline.com/rd-100-2020-winner/the-resilience-planning-and-analysis-tool-rapt/>