Angelina Evans

Phone: (319)-512-3081 | Email: evansangelinab@gmail.com

EDUCATION

M.S. University of Iowa **Fall 2023-Present**
Geoinformatics
Undergraduate-to Graduate (U2G) Program

B.A. University of Iowa **August 2020-May 2024**
Major in Geography - Geographic Information Science
Minor in Computer Science
Minor in Environmental Policy and Planning

A.A. Kirkwood Community College **January 2016-May 2019**
Liberal Arts
Honors: Phi Theta Kappa

Related Coursework:

- Foundations of GIS
- Introduction to Geographic Visualization
- Computer Science I: Fundamentals
- Introduction to Computer Science
- Discrete Structures
- Algorithms
- Programming Languages and Tools
- Statistical Methods and Computing
- Geographic Databases
- Hazards and Society
- Contemporary Environmental Issues
- Geospatial Programming
- Lidar: Principles and Applications
- Business Computing Essentials
- Introduction to Informatics
- Iowa Environmental Policy in Practice

WORK AND RESEARCH EXPERIENCE

Undergraduate Research Assistant, University of Iowa College of Nursing **November 2023-Present**

- Assist in research tasks such as literature reviews, evaluations and investigating geocoding methods for the Center for Linkage and Acquisition of Data (CLAD) in the NIH All of Us Research Program.

Data Science for the Public Good Intern, Iowa State University **May-July 2023**

- Investigated methods for conducting a thorough and objective evaluation of Iowa communities' housing stock using artificial intelligence techniques.
- Collected housing data, including images, from existing sources such as realtor websites, Google Street View and county assessor websites.
- Collected data on housing age, number of bedrooms, square footage, and assessed value.
- Utilized roof, gutter, siding, and landscape condition as part of AI analysis to identify homes that may qualify for community assistance programs. Designed interactive Tableau maps to visualize the house conditions of multiple communities.

U.S. Department of Energy Science Undergraduate Laboratory Intern, Oak Ridge National Laboratory (ORNL), Geospatial Science and Human Security Division

June-August 2022

- Analysis of socio-economic factors and spatial-temporal dynamics of hospital closures in the United States.
- Performed Shapiro Wilks test and Wilcox Rank to determine whether the socio-economic factors are significantly different in areas where hospitals are closing compared to where they are not closing.
- Performed feature selection methods on socioeconomic data and hospital closure locations to find the factors most prominent in areas near closures.
- Calculated changes in travel time and distance to the nearest hospitals in the U.S. before and after closures using U.S. roads OpenStreetMap and Open Street Routing Machine (OSRM). The results showed how patients are being affected by closures.
- Created visualizations using to further understand hospital closure vulnerability and impacts of closure.
- Received first place award in Oak Ridge National Laboratory Summer Internship Abstract Competition.
- Received first place award in the National Security Sciences Directorate Poster Competition.

U.S. Department of Energy Summer Undergraduate Laboratory Intern, Oak Ridge National Laboratory (ORNL), Geospatial Science and Human Security Division

June-August 2021

- Analysis of socio-economic factors and spatial-temporal dynamics of hospital closures in the United States.
- Created visualizations using to observe patterns in hospital closure locations and socio-economic factors in the state of Tennessee.
- Calculated and visualized changes in travel time and distance to the nearest hospitals in Tennessee before and after closures.
- Determined the areas in which travel time and distance is impacted most by hospital closures in Tennessee and if these are areas with lower socio-economic status when compared to other places in Tennessee.
- Received Second Place award in the Oak Ridge National Laboratory Summer Internship Poster Competition.

COMPUTER SKILLS

Proficient	**Intermediate**	**Beginner**
ArcGIS Pro, QGIS	Python, RStudio, HTML, CSS	Tableau, C#, JavaScript

AWARDS

Nicholas L. Paape Memorial Scholarship **May 2023**
Department of Geographical & Sustainability Sciences Student Excellence Award

Benjamin A. Gilman Scholarship **May 2022**
Gilman International Scholarship Program

Iowa Scholars Award **Fall 2020-Present**
University of Iowa Scholarships

EXTRACURRICULAR ACTIVITIES

University of Iowa CRU Campus Ministry **January 2021-Present**

- Attended gatherings and participated in group discussions and Bible studies.
- Welcomed newcomers and engaged groups during activities.

University of Iowa Track Club **January 2022-March 2023**

- Competed in Track and Field competitions against other University, Division III, and Junior College track teams.
- Outdoor 200-meter and 400-meter races on University of Iowa Track and Field club record list.
- Participated in track practices and encouraged teammates during workouts.

International Student and Scholar Services (ISSS) Programs **August 2021-August 2022**

- Participated in group activities to befriend international students and welcome the students to the University of Iowa.
- Provided support to international students and helped them learn about the University of Iowa and surrounding cities while learning about their own country and culture.
- Created a welcoming environment for international students and built long-lasting relationships.