

Katherine M. Yut

Geospatial Data Analyst

Expert in geospatial and statistical analyses using R. Passionate about data visualization. Seeking to solve interesting problems while growing geospatial Python skills.

Work History

2022-05 – GIS & Energy Data Analyst

Current University of Texas, Bureau of Economic Geology, *Austin, TX*

- **Analyzing (50%):** Utilizing ArcMap to aid in oil & gas research.
- **Coding (40%):** Leveraging R to clean and manipulate data tables, solve problems, and draw conclusions.
- **Communicating (10%):** Publishing research findings as papers, posters, and presentations.

2020-06 – Viticulture Research GIS Intern

2020-12 E. & J. Gallo Winery, *Modesto, CA*

- **Coding (35%):** Managed expansive file structure and folder organization; automated data acquisition using R.
- **Analyzing (35%):** Processed/analyzed data; built multivariate linear model; completed remote sensing analysis in Google Earth Engine.
- **Storytelling (25%):** Assisted with irrigation decisions to improve wine grape yield and quality; presented findings in slideshow.
- **Fieldwork (5%):** Assisted with Trimble GPS in situ data collection, berry sampling, and other vineyard tasks.

2019-05 – Remote Sensing Intern

2019-08 NASA DEVELOP, *Pocatello, ID*

- **Solo research (30%):** Conducted literature review; collected training data, built classification models, completed site suitability analyses.
- **Visualizations (30%):** Designed figures, maps, and slideshows; adhered to strict style guidelines.
- **Team research (20%):** Brainstormed; collaborated; developed workflow in ArcGIS, ENVI, Idrisi Terrset, and Google Earth Engine; delegated tasks; tackled unexpected setbacks.
- **Communication (20%):** Wrote tutorial to reproduce workflow; collaborated with partners; conveyed complex science to lay audience.

Research

2019-04 Kelley, S., Yut, K., Kulkarni, R., & Gaffin, D. (2019). Avoidance of rosemary oil by scorpions. *Journal of Arachnology*.

Education

2016-08 – Master of Arts: Economics and Big Data

2021-05 Bachelor of Arts: Economics and Big Data

Bachelor of Science: Geographic Information Science

University of Oklahoma – Norman, OK

Summa cum laude

Contact

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Skills

RStudio, R: Writing functions, making packages, documenting code; Programming interactive html servers with responsive graphics using R shiny.



ESRI ArcMap



QGIS, Google Earth Engine, ENVI, GitHub, Java, JavaScript



Big Data statistical processing, analysis, and modeling



SQL, Python



Statistics; Quality control and multivariate normality checks; Principal Components, Factor, and Bayesian analyses; Ordinary and weighted least squares linear regression.



Creating timely deliverables and communicating effectively



Curiosity, organization, multitasking, and focus



Recognition

- Phi Beta Kappa Honor Society
- Outstanding Junior
- National Merit Scholar Finalist