**Proposal: Alligator Populations**

**Group members:**

James Elander

Mai Houa Hang

Susan Thao Vang

Mee Thao

Nick O’donnell

**Description/outline:** The aim of our project is to explore alligator populations, sightings, and human-related incidents like attacks. Using interactive visualizations, we aim to highlight trends in alligator behavior and interactions with humans, helping raise awareness about alligators in the United States.

**The kind of data you’d like to work with and the field you’re interested in**

* Choropleth map of Alligator populations within the USA 1900- present
* Heatmap or barchart of alligator sightings in the United States
* Alligator fatal human attacks in the span of the last 10 years (charts) - line chart

**The questions you’ll ask of the data**

1. How have the alligator population changed over the years? Are there any population trends that we are seeing with alligators in the United States? - James
2. Has alligator sightings decreased or increased over time? Do we see an increase in a certain season (or months) compared to others? - Mai
3. Is there an increase of alligator attacks over time? Where in the United States are the alligator attacks or human-related incidents occurring most frequently? - Mee
4. Does the weather affect the alligator’s behavior? Such as attacking humans more? Showing certain odd behaviors not seen often? -Susan

**Possible source for the data**

Fatal Alligator Attacks US CSV - <https://www.kaggle.com/datasets/danela/fatal-alligator-attacks-us>

<https://blog.batchgeo.com/us-alligator-attack-statistics/>

<https://journals.sagepub.com/doi/10.1016/j.wem.2010.02.002?icid=int.sj-full-text.citing-articles.4>

Alligator Data and Reports - <https://myfwc.com/wildlifehabitats/wildlife/alligator/data/>

<https://worldpopulationreview.com/state-rankings/alligators-by-state>

<https://uofmvirtdatap-oq05270.slack.com/archives/C08A2HP5KED/p1737516459837279>

<https://crocdoc.ifas.ufl.edu/projects/alligatordatasets/>

American alligator data - [https://nas.er.usgs.gov/queries/FactSheet.aspx?speciesID=221#](https://nas.er.usgs.gov/queries/FactSheet.aspx?speciesID=221)

Alligator sightings - <https://www.inaturalist.org/observations?subview=table&taxon_id=26159>