

# A Visual Zooarchaeology Guide for Florida Artifacts

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## Introduction

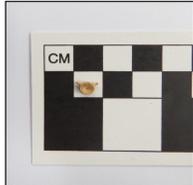
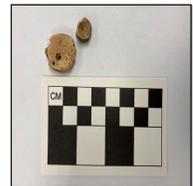
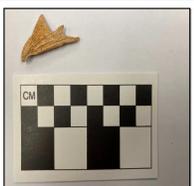
- In 1950, there were only a few zooarchaeologists (Gifford-Gonzalez, 2018)
- Zooarchaeology is the study of animals remains, located in a specific archaeological area in questioned (Gifford-Gonzalez, 2018)
- Archaeologists debated how best to use the animal remains to study their past environment, and the relationship with humans
- These animal remains are used to document what indigenous people were eating

## Methods

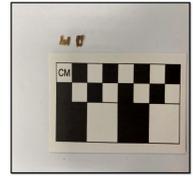
- Artifacts were collected from specific archeological locations and sent to the lab.
- Carefully using a toothbrush and water, each bone artifact was brush cleaned
- Artifacts were let dry for identification
- Pictures were taken, and a size chart was used (shown in the cards).
- Observation of the artifacts were collect and each bone was identified

## Results

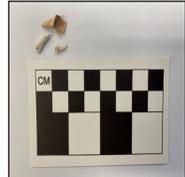
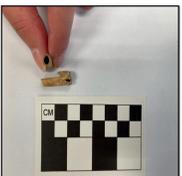
### Fish

<b>Gar</b> <ul style="list-style-type: none"><li>• This is not a specific part of the fish or a specific species of Gar</li><li>• The pattern consists of long straight line or striations on the surface of the bone</li></ul> 	<b>Gar</b>	<b>Gar Vertebra</b> <ul style="list-style-type: none"><li>• Two different types of garfish</li><li>• Florida Gar (Lepisosteus Platyrhincus) &amp; Longnose Gar</li><li>• Concave on back, convex on front side</li></ul> 
<b>Bowfin</b> <ul style="list-style-type: none"><li>• The prongs are ribs</li><li>• Amia Calua</li><li>• Bone structure is called basapophsis</li></ul> 	<b>Bowfin</b>	<b>Bowfin</b> <ul style="list-style-type: none"><li>• This is not a specific part of the fish</li><li>• The texture of the bone shows a tiny recessed bubble pattern.</li></ul> 
<b>Stingray</b> <ul style="list-style-type: none"><li>• The bone is structured like a barb with small spikes radiating down each side</li></ul> 	<b>Sun Fish</b> <ul style="list-style-type: none"><li>• This is not a specific part of the fish</li><li>• The texture is a flat surface, with a small bubble on the top, it is similar to a grinding plate, but different as grinding plates bubbles are closer together</li></ul> 	<b>Fish Teeth</b> <ul style="list-style-type: none"><li>• The bottom part of the teeth(darker part), the root of the teeth, and the inside of the gum.</li><li>• The lighter part is the crown</li><li>• The specific fish cannot be identified.</li></ul> 
<b>Fish Spines</b> <ul style="list-style-type: none"><li>• Attach to the vertebra, giving fishes body shape</li><li>• It has holes at the end</li><li>• Can be top attachment part or on the angle</li></ul> 	<b>Mullet Vertebrae</b> <ul style="list-style-type: none"><li>• Long &amp; Thin</li><li>• left &amp; right side of the vertebra is bisected on both sides</li></ul> 	<b>Grinding Plates</b> <ul style="list-style-type: none"><li>• It looks like smooth balls; on the bottom, it's hollow (circular rim)</li><li>• Fish with grinding plates in the state of Florida</li><li>• Bowfin, hydrolagus colliel, dogfish, chimaera, and snook</li></ul> 
<b>Shark</b> <ul style="list-style-type: none"><li>• Perfect disc</li><li>• "Cardalatosic fish"</li></ul> 	<b>Fish Skull</b> <ul style="list-style-type: none"><li>• Lace like pattern</li></ul> 	<b>Scales</b> <ul style="list-style-type: none"><li>• Cover the enamel-like coating</li><li>• Diamond or arrow-head shaped</li></ul> 

### Reptile

<b>Jaw</b> <ul style="list-style-type: none"><li>• Long &amp; Thin</li><li>• Holes where teeth are supposed to be</li><li>• *Multiple pieces in Photo*</li></ul> 	<b>Turtle</b> <ul style="list-style-type: none"><li>• Very light, pruas</li><li>• Broken edge will showcase purus pattern</li></ul> 
<b>Reptile vertebra</b> <ul style="list-style-type: none"><li>• Squarish shape</li><li>• Fractions of reptile vertebra shown</li></ul> 	<b>Alligator Scute</b> <ul style="list-style-type: none"><li>• Circular with a ridge pop</li><li>• Like plate armor</li></ul> 

### Other

<b>Crab</b> <ul style="list-style-type: none"><li>• Little horn-like structure</li><li>• White or off-white</li><li>• Crystation shell look alike</li></ul> 	<b>Organic Residue</b> <ul style="list-style-type: none"><li>• Cooking fats mixed with charcoal</li><li>• Looks like clumps of dirt</li><li>• Dark</li></ul> 
<b>Bird Bone</b> <ul style="list-style-type: none"><li>• Hollow in the middle</li></ul> 	

### References

Gifford-Gonzalez, D. (2018). *An introduction to zooarchaeology*. Spring.