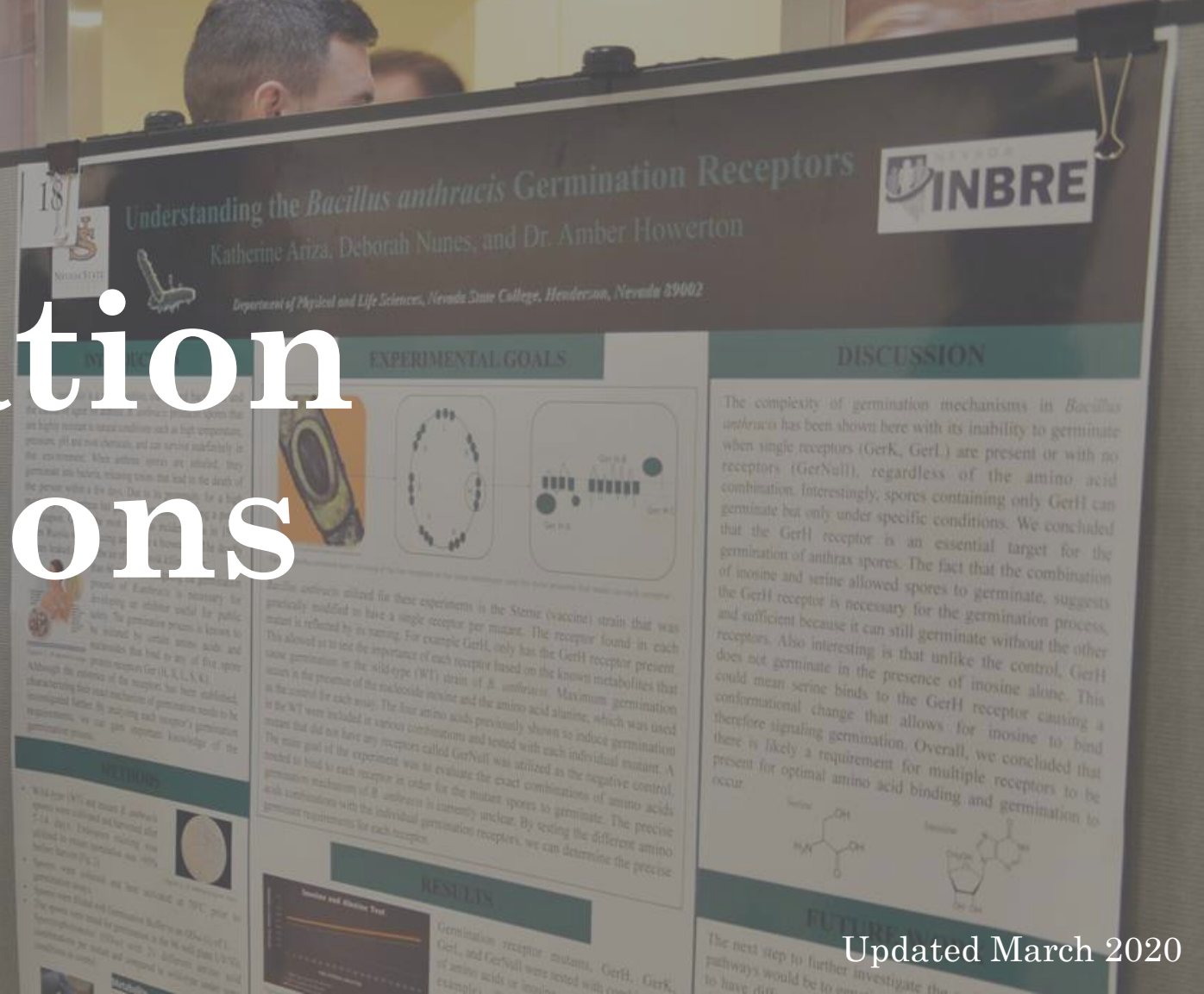


# Poster Presentation Instructions



# Poster Presentation

## Overview

- A poster presentation is essentially an overview of your research and everything that you have done thus far.
- We understand that research projects do not start and end on specific dates and therefore, **many of you will only have preliminary results.**
- For the final poster, you will need to include:
  - The UNLV logo
  - Your name and mentor's name
  - Grant acknowledgment (if applicable)
- Your research mentor **MUST** approve your poster presentation. This is an opportunity to learn and ask questions.



# Poster Layout Instructions

- It is highly recommended that you use PowerPoint to set up your poster.
- Templates can be found on the OUR website.
  - On PowerPoint:
    - In the **Design** tab, look to the far right and click on **Slide Size**, then **Custom Slide Size** to adjust to your desired dimensions.
    - You can change the **Layout** of the slide to **Blank** and then begin placing text boxes to create your format. In the **Insert** tab, click on **Text Box**. Click and drag the mouse on the slide to create the text box.
    - You can import media (images, charts, and icons) by clicking on the **Insert** tab and then **Pictures**. Browse to the location on your computer to find the file. You can also drag and drop media directly onto the slide.
- **Specifics:**
  - The recommended size is 36 inches (height) by 48 inches (width) and Landscape orientation
  - Title: Use at least 70 pt. font
  - Authors and Affiliations: Use at least 50 pt. font
  - Headings: Use at least 40 pt. font
    - Any text under the headings should be at least 24 pt. font.
  - Include:
    - Introduction
    - Objectives and Hypotheses
    - Methods
    - Results
    - Conclusions or Discussion
    - Acknowledgements

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## BACKGROUND

- Infants prefer to listen to Infant-directed speech (IDS) over Adult-directed speech (ADS) (Cooper & Aslin, 1990). However, the size of this effect has been inconsistent in the literature.
- We participated in Experiment 1 of the Many Babies Project, a multi-lab replication effort that worked collaboratively to replicate the IDS preference across different infant age groups and testing methods (The ManyBabies Consortium, 2019).
- Secondly, we are participating in a follow-up Many Babies study examining the relation between IDS preference and later language development

## RESEARCH QUESTIONS

- 1) Do 3- to 6- month-old infants prefer Infant-directed speech (IDS) or Adult-directed speech (ADS)?
- 2) Is the degree of preference for IDS related to infants' later language development, at 18-months old or 24-months old?

## METHODS

- |  |  |
|--|--|
| <b>Experiment 1:</b> <ul style="list-style-type: none"> <li>- n = 22</li> <li>- Procedure: Single screen preference paradigm</li> <li>- Stimuli: 8 IDS and 8 ADS sentences (randomized)</li> <li>- IV: Speech Type (IDS or ADS)</li> <li>- DV: Looking time (s)</li> </ul> | <b>Experiment 2:</b> <ul style="list-style-type: none"> <li>- n = 13</li> <li>- Procedure: MacArthur Bates Communicative Development Inventory (MB-CDI)</li> <li>- Testing Points: 18 months &amp; 24 months</li> <li>- IV: IDS Preference from Exp. 1</li> <li>- DV: Vocabulary (MB-CDI)</li> </ul> |
|--|--|



**Figure 1.** Experiment set-up for preference LT procedure.

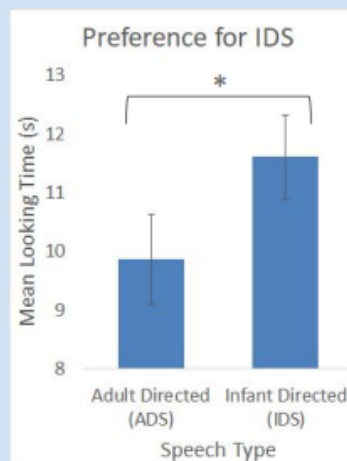


**Figure 2.** Exp. 1 visual stimulus



**Figure 3.** Exp. 2 testing procedure using the online MB-CDI.

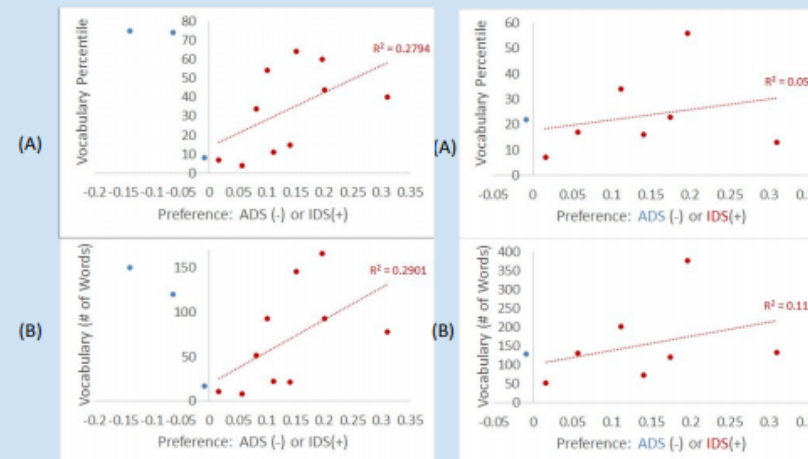
## Experiment 1



**Figure 4.** Results from Experiment 1. Mean looking time (in seconds) plotted as a function of speech type. Results demonstrate a significant main effect of speech type, such that infants looked significantly longer at Infant-directed speech compared to Adult-directed speech,  $t(22) = 4.356$ ,  $p < .001$ .

## RESULTS

## Experiment 2



**Figure 5.** Results at 18 months old ( $n=13$ ). A) Relation between degree of IDS preference and vocabulary percentile. B) Relation between degree of IDS preference and number of words known.

**Figure 6.** Results at 24 months old ( $n=8$ ). A) Relation between degree of IDS preference and vocabulary percentile. B) Relation between degree of IDS preference and number of words known.

## CONCLUSIONS

### Experiment 1:

- Infants at 3- to 6 months show a significant preference for Infant-directed speech (IDS) over Adult-directed speech.

### Experiment 2:

- At 18-months, the degree to which babies preferred IDS was a positive predictor for vocabulary development.
- At 24-months, the relation between earlier IDS preference and vocabulary was still positive, but not as strong.

## FUTURE DIRECTIONS

- Complete MB-CDI data collection for infants at age 24 months.
- Investigate the relation between preference for IDS and other language abilities, such as phonology.

### References:

- Cooper, R. P. and Aslin, R. N. (1990) Preference for Infant-directed Speech in the First Month after Birth. *Child Development*, 61: 1584-1595.
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### Acknowledgements:

Thank you to the UNLV Infant and Child Music Lab and the families who participated. Thank you to the research assistants and graduate assistants who helped with data collection, with a special thanks to Lindsey Hierro for helping with the organization and management of Experiment 2 data collection.

# Excavating Monterey In The Ancient Maya City of Caracol

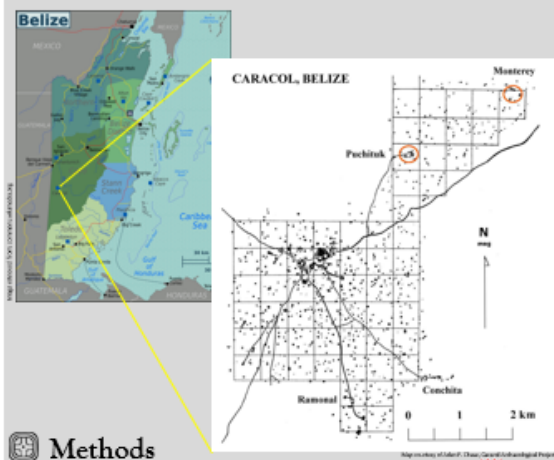
Mayra Arzate, Arlen F. Chase  
Department of Anthropology, University of Nevada, Las Vegas



# UNLV

## Abstract

Five and a half kilometers distant from the Caracol site epicenter lies an area known as "Monterey," named after a Maya residential group in this vicinity that was dug in the 1990s; the name is now applied to the public architecture in this location and used for close-by residential groups. Archaeological investigations in the area of Monterey at the ancient Maya city of Caracol, Belize was carried out in 2019 by excavating multiple edifices that consisted of public buildings and residential groups. The research conducted was part of the 35th field season of the Caracol Archaeological Project.



## Methods

- Excavation units/axial trenches were set up at six structures investigated:
- Pebble Group (Residential)** C219B: small eastern/central pyramid, C219C: northern building, C219D: far eastern building.
- Monterey Public Architecture Group** C220B: large hillside eastern pyramid, C220C: playing field for a Maya ballcourt
- Boulder Group (Residential)** C221B: eastern building and supporting platform trenched to bedrock.
- Analysis of artifacts: ceramic, lithic and groundstone was conducted along with study of architectural features to determine use of the buildings and estimate time periods of when they were constructed and occupied.

## Results

Operation	Structure	Axial Trench	Key Artifacts Recovered	Architecture Findings
Pebble- C219B	Small Eastern/ Central Pyramid	11.2 m x 2 m	Ceramics, metate/mano, atlatl biface point, shell, limestone bar, quartz	Stairway, stucco floors, bench, door jambs, construction wall
Pebble- C219C	Northern Building	6.3 m x 2 m	Ceramics, metate/manos, olivella shell, obsidian	Fragments of stairs, partial stucco floor
Pebble- C219D	Far Eastern Building	5.1 x 2 m	Ceramics, lithics, groundstone, cave stone	Limestone cut step, plastered floor
MPA- C220B	Large Eastern Pyramid	2.2 m x 2 m (basal) 6.6 m x 2.3 m (summit) Total length trench: 16.2 m	Ceramics, lithics, groundstone, shell, burned charcoal, 2 lip-to-lip bowls, 1 ceramic lidded barrel with contents: 3 flamingo-tongue shells, shell beads and jadeite beads	Two rooms, stone-base walls, door jambs, sequential series of plastered floors (architectural renovations)
MPA- C220C/C220D	Maya Ballcourt	8.7 m x 1 m (N) 7.3 m x 1 m (S)	Ceramics, lithics, central plain ballcourt marker	Ballcourt field
Boulder- C221B	Eastern Building	7.6 m x 2 m	Ceramics, lithics, groundstone, burned charcoal, bone, limestone bar	Supporting platform trenched to bedrock, construction walls

## Images



## Discussion

The excavations produced findings in architecture from all the buildings at Monterey. Some showed a long construction history while others represented single-phase constructions placed directly on bedrock. Recovered ceramic, lithic, and groundstone artifacts (including a stone ballcourt monument) were also an important part of being able to interpret the investigations in terms of the time period of occupation and the various construction efforts.

## Conclusions & Future Research

- The 2019 research demonstrated that Monterey was constructed and used from the Late Preclassic through the Terminal Classic Periods.
- The amount of construction effort represented in these data at the time of the Maya collapse around C.E. 900, showed that the outlying population of Caracol was still thriving just before the city's final abandonment.
- Future research on this site will consist of analyzing collected charcoal samples through radiocarbon dating sent to a special laboratory. Recovered samples were from sub-operations C220B and C221B.

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- Acknowledgements:**  
Dr. Arlen F. Chase, Dr. Diane Z. Chase, Caracol Archaeological Project, UNLV Office of Undergraduate Research, Greenspun College of Urban Affairs; Dr. Christopher Stream, Liz Gil, Amber Ford, Dr. Jaewon Lim, UNLV Department of Anthropology, Institute of Archaeology (NICH) Belize, Maureen Carpenter, Melissa Badillo, Eric Fries, Adrian S. Chase, Lisa & Lucas Johnson and the local Belize crew.



# Audience Questions

- Questions can be nerve-racking, however, an engaging presentation should encourage discussion and follow-up questions.
- Listen attentively and paraphrase the question back to them if you need more clarification.
- Spend some time when preparing beforehand to think of possible questions that would be asked.
- **It is okay to not know the answer to a question!** It is *not* okay to “fake” an answer to a question.
  - You can say something like... “I actually do not know the answer to that, but it’s a great question and I will look into it.”

# Delivery



## **Speak loudly and clearly**

Be concise and complete in your explanations  
Talk through each slide, but do not read off the slide

Don't go too quickly



## **Be aware of your audience**

Repeat key points  
Limit jargon and explain any uncommon abbreviations



## **Look professional**

Avoid distractions by emptying your pockets, clearing your presentation space, and focusing on your audience

If you provide handouts, distribute them before or after the talk – not during

Face your audience, not the screen



## **Prepare beforehand**

Practice is crucial for a successful presentation  
Rehearse by yourself and in front of friends

Time your talk

Rehearsing will decrease nervousness



## **Show enthusiasm for your research!**

# Symposium Information

- Poster presenters have an 8 minute time slot:
  - 6 min for their poster
  - 4 min for Q&As
  - 3 min for judges to fill out notes
  - 2 min for transition
- Students are responsible for printing their own posters.
- However, the Office of Undergraduate Research offers a first-come, first-served Poster Printing Grant to cover these costs.
- Please encourage your mentor to attend your presentation.

# References

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