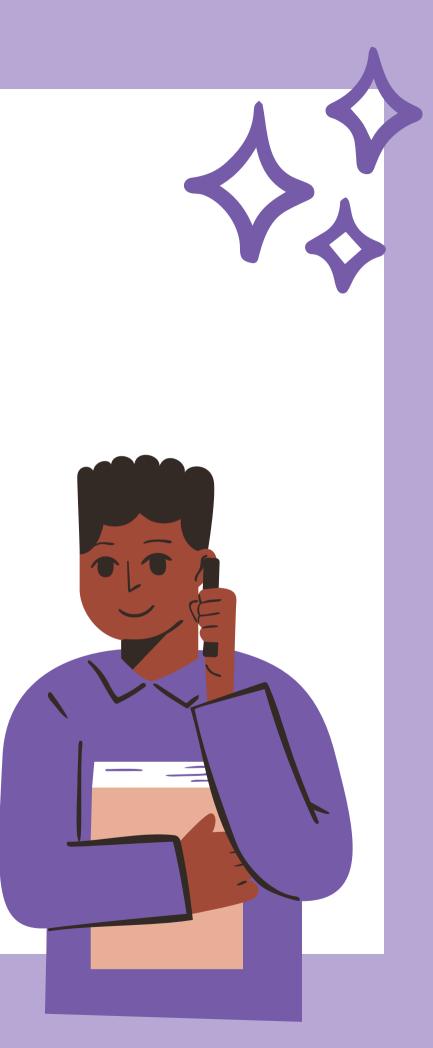
# CREATING RESEARCH POSTERS GISELLE NUÑEZ 3-6-24



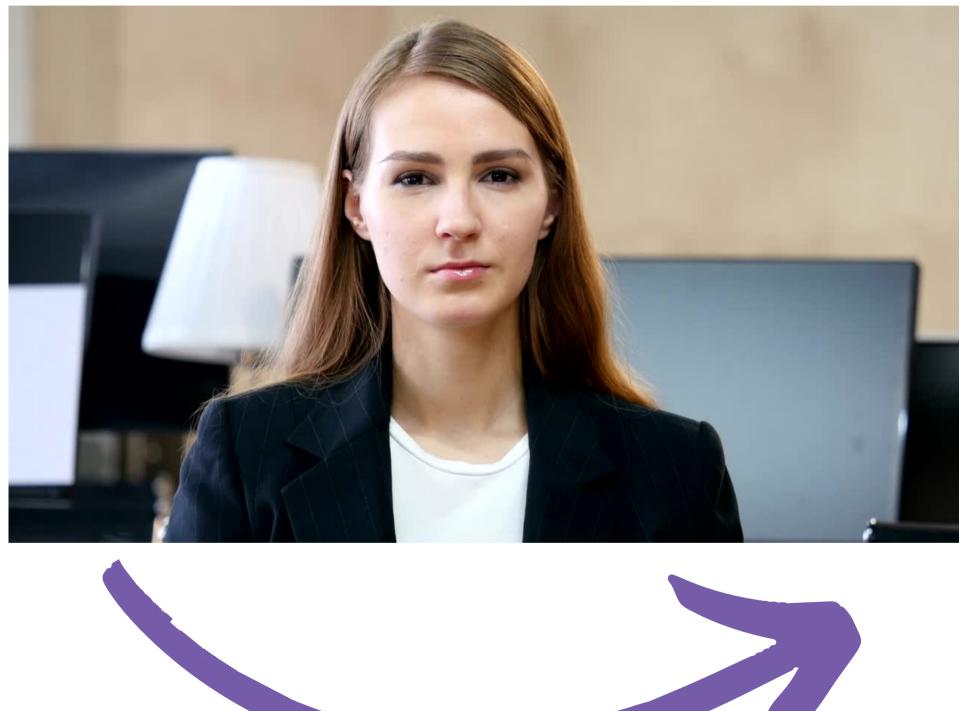
# DO YOU HAVE ANY EXPERIENCE MAKING A POSTER?

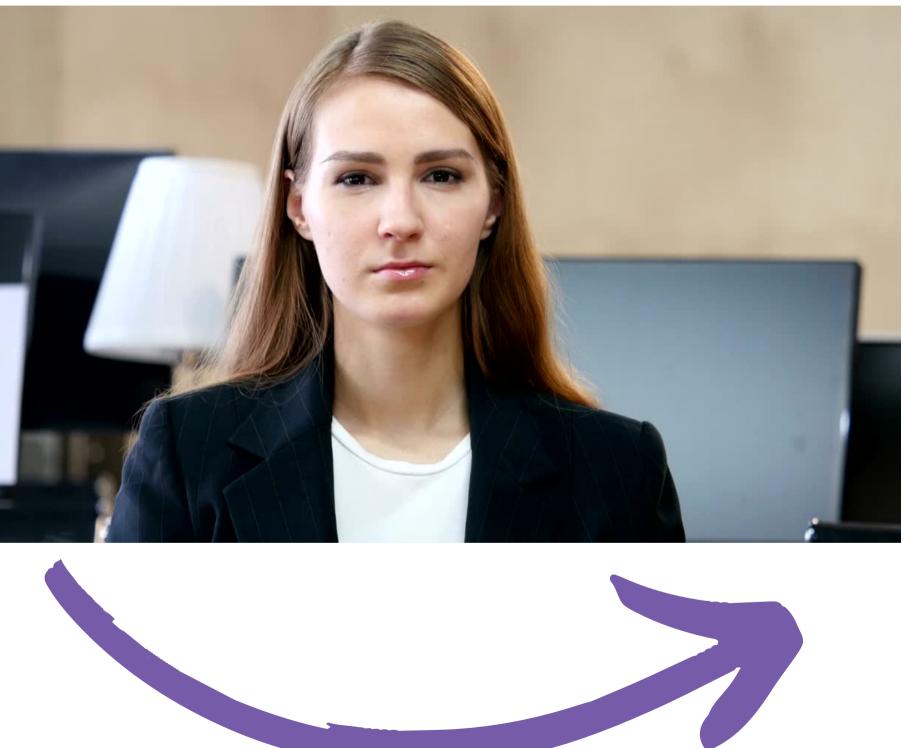
# WHAT MAKES A GOOD POSTER?

- Legible
- Not information packed
- Appealing colors
- Graphs/Images

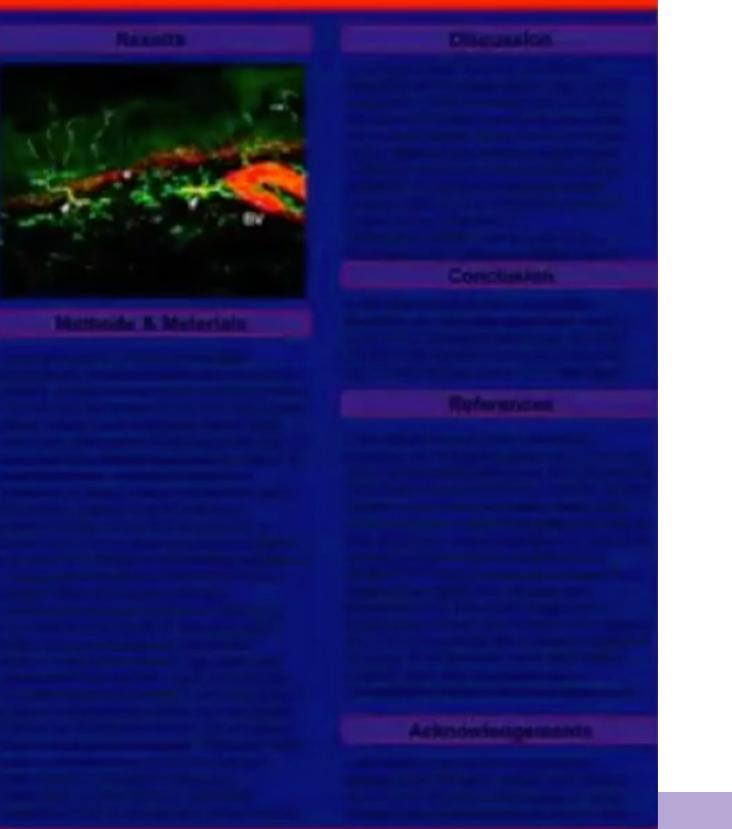


# WHAT TO AVOID AND NOT DO





# Matheoda & Materiala



https://youtu.be/nF2GEOeERaM?si=WgdRncbWiVvrZKLd

Returning to School: The Story of Registered Nurses Returning to School for their Bachelor's Degrees

Kathy Calsaganta, Jaciyn Cassidy, Carol DaSilva, Darlene Dsejour, Sand y Mendoza, Carmen Pozo-Rivera, and Sandria Savage

Atlantic Union College 316 Bain St. P.O. Box 1000 S. Lancester M.A 21561

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# Abstract:

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# Data Collection Precedure

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# Data Analysis

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# Aquatic Macroinvertebrate Community Composition Gradients Along the Upper Sacramento River

Priscilla Vasquez-Housley

University of California, Davis, 95616



The Upper Sacramento River's cold waters are home to a number of plant and animal species. that depend on a clean and productive aguatic environment. The insects, worms, and mollusiks found in rivers are excellent bioindicators of habitat guality and physical conditions in aguatic systems. These organisms, collectively known as equatic macroinvertebrates, play a crucial role in organic material processing and are a major food source for fish.

According to the River Continuum Concept, the physical conditions along natural streams change is a predictable pattern that should translate into gradients in the aquatic biological community. The Upper Sacramento River has historically been subject to human interference via logging, dams, and development. These activities can negatively impact the river environment and aquatic organisms, however restoration efforts have been underway.

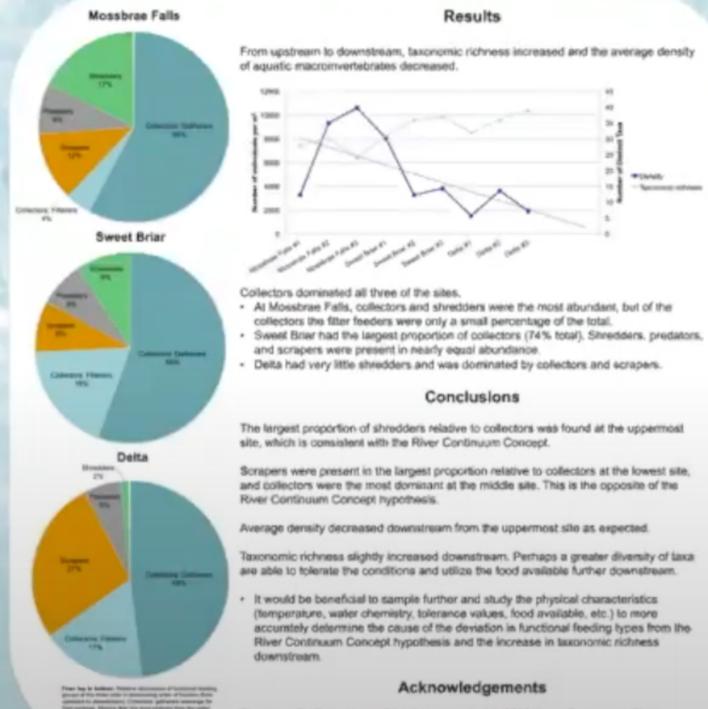
 Despite historical human interference, does the aquatic macroinvertebrate community composition in the Upper Sacramento River follow expected gradients?

# Methods

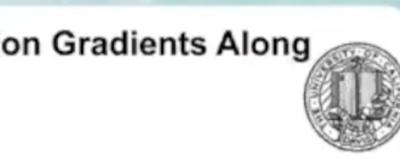
Samples of aquatic macroinvertebrates were collected using a D-frame water quality kick net at three sites along the Upper Sacramento River in July 2018: Mossbrae Falls (upstream), Swect Briar (middle), and Delta (downstream).

Each sample was sorted and identified in the laboratory. Before sorting, samples were split using a Folsom Plankton Splitter until approximately 500 insects were present in the subsample. The split fraction was recorded and the insects were identified. Only a small number of insects and mollusks were too immature or demaged to identify to genus, but those with genus-identifying characteristics missing were at least identified to Family. Counts of each taxon were recorded and totaled.

Taxonomic richness, density, and functional feeding types were recorded after identification.



Fhank you Dr. Robert Lusardi for the access to July 2016 Upper Sacramento River data, and for your help in educating me on stream systems. I'd also like to thank Dr. Randy Dahlgren for his research guidance.



# Analysis of Hippo Milk after Pre-Mature Birth

Camerin Rencken<sup>1,2</sup> C.G. Arlotta<sup>2</sup>, B. Henry<sup>3</sup>, M.L. Power<sup>2</sup> Smithsonian Conservation Biology Institute, Cincinnati Zoo & Botanical Garden, University of California, Davis

# Background

DIn January, a pre-mature hippo calf, Fiona, was born at the Cincinnati Zoo, Fiona was not stable, and needed a formula in order to promote healthy growth in her first few weeks. Since the nutrient composition of hippo milk is not known, an analysis of her mother's milk was performed.

# Introduction

Early life factors can alter development, potentially programming adult physiology and metabolism. Vulnerability to disease has been shown to be correlated to disturbances during critical times in a child's life such as whilst a fetus or neonate. Mothers may respond to these environmental factors by modifying the signaling to her offspring via her milk. Lactation has evolved as a mechanism for mammalian mothers to regulate development in their offspring.

Mammalian neonatal growth is dependent on maternal milk. Milk is the first form of nutrition for animals and has been linked to supporting immune development, as well as providing the neonate growth and metabolic hormones. Milk is a dynamic substance that may alter in response to many factors, but also tends to have consistent species-specific attributes. Although no formula could duplicate Fiona's mother's milk, matching the nutrient content as best as possible would give Fiona her best chance.

Importance of Major Nutrients

Fat: Fat is used as an energy source that can be stored for later use. Also, consumed fat helps you maintain both cell membrane flexibility and the structural integrity of your cells and tissues.

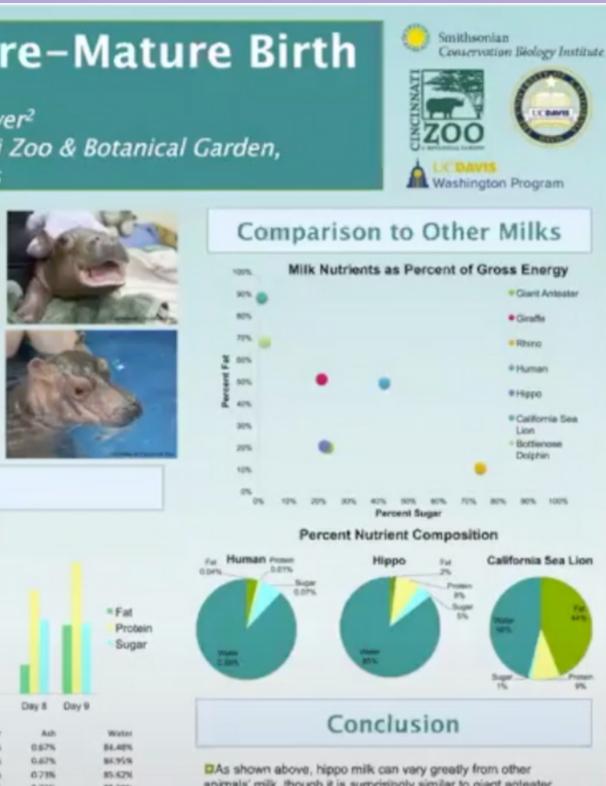
Protein: Protein gives structure to both muscles and organs. and facilitates interaction of muscle fibers with your skeleton, allowing your body to move. Protein also provides the building blocks for immune and blood cells, hormones, and enzymes.

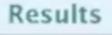
Sugar: Sugar absorbed into the bloodstream provides energy to fuel your cells.

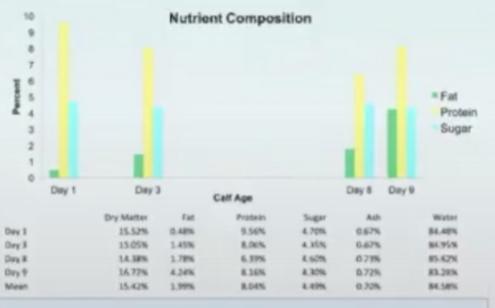
# Methods

We determined the sugar, fat, mineral, and protein content of the sample, and compared those numbers to the dry matter percentage by assaying water. The methods used are standard methods validated for multiple species of mammals at the SNZP Nutritional Laboratory.







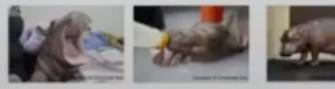


# Discussion

ElHippo milk was lower fat and higher protein than expected, with a moderate sugar content. The protein slowly decreased, while the fat increased.

The substance slowly changed from colosirum (day 1) to regular milk (day 8). However, after day 9 milk could no longer be obtained from Fiona's mother. The change in composition between days 8 and 9 may represent the cessation of lactation. Involution occurs when the mammary gland begins to return to its natural state of non-lectation. It is an essential process that removes the epithelial cells that produce milk, as they become superfluous at weaning. Since Fiona never nursed, it is likely that involution was triggered.

animals' milk, though it is surprisingly similar to giant anteater milk. If the veterinarians had fed Fiona store bought cow milk, she would do her best to absorb the nutrients, but may struggle. For example, if you give a baby milk that has too much sugar, two things may happen. The sugar may accumulate in the gut causing microbial instability, or the sugar will cause osmosis to occur into the digestive tract and may lead to watery feces. This is one example of why accurate assays must be run to assess maternal milk to create a formula for offspring.



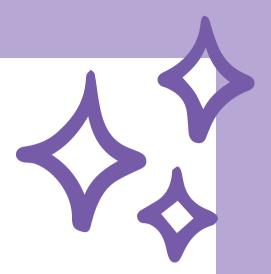
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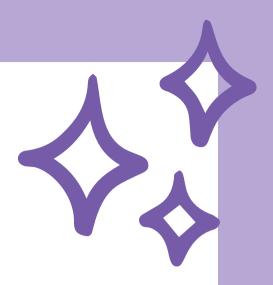
Creat your poster using Power Point

Size: 3 feet by 2 feet (width 36 in and height 24 in)

- Project Title
- Presenter and author information (including PI)
- Institution information
- Hypothesis or statement about the problem being investigated and why the research is important
- Methods and controls
- Results and discussion of findings
- Conclusions/expected outcomes, future research, and key reference



- Acknowledgements of funder(s);
  - If funded by a federal program
    - Check with your faculty mentor to see if there are other grant agencies or programs that need to be acknowledged on your poster.
  - Logos:
    - You are NOT required to have a K-State logo on your poster. If you do want to include one, it should be the K-State watermark, not a PowerCat.
- A graph or image



# YOUR POSTER MAY LOOK DIFFERENT OR NOT INCULDE ALL OF THIS INFORMATION





# THANKYOU FOR LISTENING!

