Senior Comprehensive (CPSC 099) Information Session

09/27/2023

Vasanta Chaganti
What is the senior comprehensive

Your chance to present an awesome poster and tell your story about a cool project you did
Requirements

• All seniors are automatically signed up for a zero-credit course, CPSC 099

• The grades will be assigned as S (satisfactory) or NC (unsatisfactory) only.

• To earn an S grade, students are responsible for two "deliverables":
  • a poster (details below)
  • a well-prepared, practiced oral presentation accompanying the poster that is six to seven minutes long.
What can your poster be about?

• CS 41 Algorithms
• CS 43 Networks
• CS 44 Databases
• CS 45 Operating Systems
• CS 46 Theory
• CS 49 Probabilistic Methods
• CS 56 Animation
• CS 63 Artificial Intelligence
• CS 65 NLP
• CS 66 Machine Learning

• CS 68 Bioinformatics
• CS 71 Software Engineering
• CS 73 Programming Languages
• CS 75 Compilers
• CS 81 Adaptive Robotics
• CS 87 Parallel and Distributed
• CS 88 Security and Privacy
• CS 89 Cloud Systems
• CS 91 Special Topics Courses in Theory/Systems/Applications
• Research Experience
# TIP 1: What awesome posters have in common

- 1000 words or less
- White space around text boxes and figures
- Title in one sentence
- Lists of sentences rather than blocks of text
- Avoid weird color combinations
- Avoid funky fonts (comic sans is for comic books)
- Give your graphs titles or informative phrases.
- Limit the use of acronyms
# TIP 2: Printing your poster

Print to a PDF first at 100%
If the PDF looks awful, go back and fix your source file.
# TIP 3: Talking about your research

Practice your talk (7 minutes)
Tell us the arch of your project
   * what is it about
   * why is it interesting
   * how did you do it
   * main takeaways
   * future work
What’s wrong with this poster?

ABSTRACT:
One ignored benefit of space travel is a potential elimination of obesity, a chronic problem for a growing majority in many parts of the world. In theory, when an individual is in a condition of zero gravity, weight is eliminated. Indeed, in space one could conceivably fly without limits and never gain any weight. And the only side effect would be the need to upgrade one’s current pants/underwear. The justification for this overtly simplistic postulation is the opportunity to create a permanent weightless environment on Earth, where economic and social benefits would accrue. The current obesity epidemic is primarily due to an overconsumption of food and inactivity, thus space could offer the ultimate and necessary solution.

INTRODUCTION:
The current obesity epidemic started in the early 1980s with the invention and proliferation of fast food and related stationary fibers, which resulted in weight gain. Calories from the fast food industry’s excesses of fat and sugar were converted into body mass. The increasing consumption of calories in the population has led to an increase in the prevalence of obesity. Obesity is a complex disease with multiple factors contributing to its development, including genetic, environmental, and behavioral factors. The prevalence of obesity continues to increase, and the consequences of obesity on health and well-being are significant.

RESULTS:
Mean weight gain in pigs over space flight was 0.0000 g. Some individuals gained more than others, but these variations were due to reaction to the duct tape, we believe, which caused them to be alarmed and thus more active. In the control cohort, gained about 240 grams (p < 0.0001). During the space flight, males and females gained a similar amount of weight on Earth (no effects of sex), and size at any point during the study was related to starting size (which was used as a covariate in the ANCOVA) on Earth.

CONCLUSIONS:
If weight and weight gain were zero in Earth’s zero gravity environment, we believe that the pig’s weight and weight gain would be zero in space. We believe that the pig’s weight and weight gain would be zero in space. This conclusion is consistent with our previous findings and supports the hypothesis that weight and weight gain would be zero in space. Our results are consistent with the hypothesis that weight and weight gain would be zero in space. This conclusion is consistent with our previous findings and supports the hypothesis that weight and weight gain would be zero in space. Our results are consistent with the hypothesis that weight and weight gain would be zero in space. This conclusion is consistent with our previous findings and supports the hypothesis that weight and weight gain would be zero in space. Our results are consistent with the hypothesis that weight and weight gain would be zero in space. This conclusion is consistent with our previous findings and supports the hypothesis that weight and weight gain would be zero in space. Our results are consistent with the hypothesis that weight and weight gain would be zero in space. This conclusion is consistent with our previous findings and supports the hypothesis that weight and weight gain would be zero in space.

ACKNOWLEDGEMENTS:
I am grateful for generous support from the Nationwide Foundation, Black Hole, and the High Five Foundation. Support for space flight was provided by SPACE-EXES, the consortium of wives divorced from space station personnel. Finally, sincere thanks to the Gurt Foundation for generously donating animal care after the conclusion of the study.

LITERATURE CITED:
NASA. 1982. Project STS-XX, Guinea Pig. Leaked internal memo.
How about this?

Muse Meditation: Mindfulness, Zen, and Academic Stamina Through the Library
Kellie Sparks, Evening Librarian
Hillary Fox, Science Librarian

background
Mindfulness is the practice of being in the moment. Meditation has the potential to enhance brain attention & speed in which the brain processes information. Librarians have the opportunity to offer an innovative service to promote student success through mindfulness.

pre/post questions
- How would you rate your current level of stress?
- How frequently do you practice mindfulness meditation?
- If the library offered a “Zen Zone,” how interested would you be in using it?
- How long did you utilize the “Zen Zone” today?

discussion & conclusions
- Positive feedback from students
- Demonstrated less perceived stress
- Incorporating this as a library service or designated space would be a welcomed service

time for quiet

results

research objectives
- Evaluate the student’s level of familiarity and current use of mindfulness practices
- Assess the student’s perceived level of stress before and after Muse Meditation session
- Determine student interest in using meditative tools in the library

future research: zen zone
Survey results show that students would like to explore other mindfulness and meditative tools in the library. We are currently testing student engagement to additional tools in what has become known as a weekly “Zen Zone.” Our goal is to have a permanent space in the library & circulate tools.

Questions?

Everything on the slides is also available here:

https://www.swarthmore.edu/computer-science/senior-comprehensive-2021

The 60 second poster evaluation: