

# **Engaging Environment for Excellence** Herbert Wertheim School of Public Health and Human Longevity Science Andy Gonzalez, Gerilynne Laraya, Carly Ann Magpantay, & Kylie Saal

## INTRODUCTION

- Spatial attributes including room layout and furniture heavily influenced 32.5% of students' perceptions and ability to focus in the classroom<sup>1,2</sup>
- Students have less pain, greater comfort, and better posture when furniture suits the learning experience and is adjusted to their anthropometry<sup>3</sup>
- There is increased engagement from students whose classroom design promoted flexibility and openness<sup>4</sup>
- It is in the best interest of a college to invest in ergonomic products as ergonomics can be overlooked<sup>5</sup>

# RESULTS

Chi Square Test on All Classroom **Configurations and Engagement Activities** 

There is a **significant association** between Classroom Configuration and Participation in Engagement Activities.

# **POLICY IMPLICATIONS**

## **INVESTMENT IN STUDENT LEARNING NEEDS:**

- Design Classroom Environments accounting for ergonomic features of Desk size, Seat support, & Seat Arrangement to support student engagement in active-listening, note-taking, and following lectureslides
  - e.g. implementing a fixed table with mobile seating
- Design Classroom Environments promoting more student engagement in raising their hand/asking questions, and group discussion/peer interaction
  - e.g. implementing adaptable spaces with mobile table and seating

# OBJECTIVE

To examine the relationship between ergonomic features of different **classroom** environments at UCSD and the extent to which they affect **student** engagement in class.

Class 3: Biomedical Sciences Building Fixed Table and Mobile Seating p-value < 0.05

### Class 2: Faustina Solis Hall

Mobile Desk and Mobile Seating **p-value** < 0.05





- Activities

# **METHODS**

Cross-sectional study using Qualtrics taken by Participants were recruited by email, social m
Ergonomic variables measuring importance levels
configuration experiences
Student engagement was assessed though partic
interaction and perceptions of classroom config
Descriptive Statistics and Chi Square Test of In
<ul> <li>Class configurations (1,2,5,4) assessed with States (Participation in Any Engagement Activities vs)</li> </ul>

Reject the null hypothesis and conclude there is a significant association between Classroom Configuration and Participation in Student Engagement

No statistical significance between individual Class 4 Configuration (Tata Hall) and Participation in Student Engagement Activities

Visibility was ranked most important compared to ergonomic features of temperature, audio clarity, and outlet accessibility



# y undergraduate UCSD students. nedia, and flyers around campus (**n = 124**)

s of **temperature, seat support, seat ty and outlet accessibility** and classroom

cipation in active-listening, note-taking, questions, group discussion/peer gurations supporting engagement activities

ndependence using Microsoft Excel Student Engagement Activity Participation No Participation in Engagément Activities)

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REFERENCES

