**Statistical Design Consulting**

**SEMESTER REPORT**

**Fall 2024**

**Client:** Christopher Ghita  **File Number:** 24-064

**Department:** Libraries **Major Prof:** Zoeanna Mayhook

**Consultant:** Sumeeth Guda **Initial Meeting Date:** 07/16/24

**Meeting Attendees:** Chris Ghita, Sumeeth Guda, Zoeanna Mayhook, Dr. Chong Gu

**Statement of Problem:**

What specific academic benefits do undergraduate students attribute to their involvement in case competitions with a finance component.

**Goal of This Project:** Undergraduate Honor’s project + Journal Publications

**Background:**

The client Christopher is an undergraduate student working with Professor Mayhook in the department of libraries to complete an undergraduate honors project. Their project explores the specific benefits that undergraduate students attribute to their involvement with case competitions with a finance component. A case competition is an event where students come together to present solutions to real-world or fictional business problems using the skills they learned in management classes.

To gather data and insights from the students to understand their initial and retrospective perspectives on the case competition benefits they created a survey to obtain this information. The survey was created using a retrospective survey design and includes 3 types of questions: Likert Scale, select all that apply, and multiple-choice question. The questions range from the students’ backgrounds and initial knowledge of case competitions and the lessons learned, to post perceptions of case competitions with regards to the benefits and growth.

The main reason they decided to come to the SCS for help was they needed feedback on the survey design, to verify that there were no statistical errors, and learn about techniques for analysis to determine if the results were significant as well as learn about comparison tests between different populations.

**Progress During Current Semester:**

There wasn’t a ton of progress this semester with regards to this project. Christopher and Prof Mayhook emailed Sumeeth the draft survey to make sure they are on track and following the suggestions made by Dr. Gu in the summer 2024 semester. Sumeeth went through the survey questions and determined that the questions were in adherence to the suggestions made by the SCS.

Currently Chris and Prof. Mayhook are collecting data from business students in Purdue, however during the spring semester they need help analyzing the data and determining the most effective test to use for the results. Sumeeth asked them to wait until spring, but until then they need to come up with more specific research questions that the SCS can work with.

**Current Status: Continuing.**