5th Annual SJC
Student Research Symposium

May 10, 2017
Brooklyn Campus
Tuohy Hall 5–8:45PM
Agenda

5:00–5:45   Poster Session
5:45–7:30   Undergraduate Paper Session
7:30–8:45   Graduate Paper Session
5:00–5:45  Poster Session

1. Juanita Arias, Lubna Batoool, Amarfi Collado, and Yesenny Fernansez
   Department: Library
   Faculty Mentors: Lauren Kehoe and Mayumi Miyaoka

Voices of SJC Oral History

Abstract: According to the Oral History Association, “Oral history is a field of study and a method of gathering, preserving and interpreting the voices and memories of people, communities, and participants in past events. Oral history is both the oldest type of historical inquiry, predating the written word, and one of the most modern, initiated with tape recorders in the 1940s and now using 21st-century digital technologies.” As the college celebrates its 100th anniversary since its founding in 1916, eleven undergraduates from the Honors Program joined the Voices of SJC Oral History Project. Through this insightful experience, the students learned about the field of oral history, researched about the history of the college using the Archives and had the opportunity to interview four Sisters of St. Joseph.

2. Hiba Khan, Yangzom Lhamo, and Medji Mimy
   Department: Chemistry
   Faculty Mentor: Jeonghee Kang

Spectrophotometric Study Of PH Dedependent Artificial Anthocyanidins for Dye–Sensitized Solar Cells

Abstract: Efficiency of light harvesting in Dye–Sensitized Solar Cells is a key function. To achieve good efficiency of the device, artificial anthocyanidin dyes were synthesized using Aldol condensation reaction, then their spectrophotometric properties were characterized by Ultraviolet–visible spectroscopy. Flavylium rings with different functional groups showed various absorption spectra due to the effect of the extended conjugation and steric hindrance. They also exhibited more than one absorption peak which means the dyes have multiple equilibrium states depending on pH of the solution. In this presentation, the relationship of dye structures and absorption spectra in acid, neutral, and basic solutions will be discussed.
**Modeling Cancer Populations**

Abstract: We use a cell population model to simulate the interaction of cancer stem cells, T-cells, and tumor cells within the body. Stem cells are undifferentiated cells, which can give rise to more specific cells such as cancer cells. T-cells are white blood cells (lymphocytes) which are part of the immune response. In this research, we are observing the interaction of cancer stem cells and tumor cells in the presence of T-cells. We use approximate parameter values from the biological and mathematical literature to create graphs illustrating the behavior of the cells. Based on this, we observe that the tumor cells will grow with no treatment. However, once the parameters of the chemotherapy treatment are added, we see a bifurcation in the model and the tumor cells no longer grow.

6:00 – 6:10 Jessica Seliste
Department: Psychology
Faculty Mentor: Peter Lin

**Relationships between Trait Mindfulness, Anxiety, and Irritable Bowel Syndrome**

Abstract: This study seeks to inform others about the debilitating effects of anxiety and irritable bowel syndrome (IBS), as well as shed some light on their potential causes and the benefits of mindfulness. Students at St. Joseph's College were surveyed in hopes of finding a negative correlation between scores on the Five Facet Mindfulness Questionnaire and the Beck Anxiety Inventory, as well as a negative correlation between scores on the Five Facet Mindfulness and the IBS Severity Score Questionnaire.

6:15 – 6:25 Ashley Maule
Department: Sociology
Faculty Mentor: Mirrella Landriscina

**New Codes of Representation: Examining Racial Portrayals in ABC's Blackish**

Abstract: My research project examines whether the recent, primetime television show Black-ish challenges or perpetuates existing stereotypes of African-Americans. Arguably, the U.S. is experiencing a dramatic demographic and technological change and therefore Hollywood and other institutions of the dominant, hegemonic white culture may be more receptive to this change. Gramsci/Hall's theory of Cultural Hegemony suggests, that this change could result in either a dismantling of the norms of culturally hegemonic Hollywood or in having the norms continue so as to media. Thus, when questioning if this recent television show Black-ish, which features a diverse, non-white main cast and characters,
goes against or perpetuates existing racial stereotypes, my research project is examining whether or not Black-ish is helping to dismantle or to maintain the cultural hegemony of Hollywood and the mainstream media. My project will fill in the gap in the gap in the literature by determining what underlies the change or the maintenance of what is a traditionally demeaning, stereotypical nanarrative of non-white Americans in the midst of inevitable demographic change.

6:30 – 6:40 Briana Maddox–Miller
Department: Sociology
Faculty Mentor: Raymond D’Angelo

Remembering Ella Baker

Abstract: Movement remains one of the most important periods in American history. Despite significant changes to legislation and the way we think of morality it is still treated as a peripheral course of study. When people do deem the movement worthy of discussion and examination, they typically think of its male leaders. Individuals like Martin Luther King Jr. and Malcolm X certainly played important roles, but we must also consider those who performed the less glamorous tasks off stage. One of these individuals was Ella Baker.

She was a member of many prominent organizations during the Civil Rights Movement including the National Association for the Advancement of Colored People, the Southern Christian Leadership Conference, and the Student Nonviolent Coordinating Committee. Baker was highly respected for her oratory skill and ability to organize people. Additionally, she provides a unique perspective as a woman in the movement.

6:45 – 6:55 Anthony Ruggiero
Department: History
Faculty Mentor: Peter Maust

The Spanish Connection: How Mary Tudor's Closeness with Spain undermined her attempts to undo The English Reformation.

Abstract: The Tudor Dynasty of England, spanning from the late fifteenth century into the early seventeenth century, were numerous emblematic and impacted the country politically, economically, and socially. One of those monarchs was Mary Tudor, the daughter of King Henry VIII and his first wife, Catherine of Aragon. Mary ruled over England from July 1553 to her death in November 1558. Despite its initial promise and success, Mary Tudor’s reign was unsuccessful due to the increased influence of foreign power. Mary’s early life and struggle to the throne reflected her determination to rule, her strong religious conviction to Catholicism, and her reliance on Spain, her mother’s native country. Mary’s devotion to the Catholic faith and her inclination towards the Spanish would lead her to marry, Philip II of Spain, who would have a major influence on both her reign and her decline in popularity with her subjects. One such influence on Mary’s decision making was her decision to go to war with France. The war with France, although initially successful, ended as a failure; she lost territory in France and drained the country of revenue.
On how Seeming becomes Being in Passing and Breakfast at Tiffany’s

Abstract: Main characters Clare Kendry in Passing and Miss Holiday Golightly in Breakfast at Tiffany’s are perceived to be egoistic, self-centered and shallow women who live their lives at full speed, despite the norms of the societies in which they live. Clare Kendry who is biracial, half white and half black, marries a rich white man and passes as a white woman for many years. Clare wants to stop “seeming” to be only white and start “being” for the more complex biracial person she really is. Yet, society won’t allow Clare to be a part of the two racial groups at the same time, and this poses difficulty for how she is truly to “be” herself. Miss Holiday Golightly pretends life is not so much an external conflict as an internal one. She wants to be perceived as a crazy one, because it is easier to live a life like that. Holly Golightly or Lulamae Barnes, which is her real name, is a “wild thing” and that what makes her run from herself and from people around her in order not to get attached. In both cases, we can vividly see a difference in seeming and being of our two characters, but as we will see in this paper, these two terms can exist together, and moreover, one can become another. Each character's true being is a combination of parts: a “seeming” or masked part, and a “being” part, which encompasses an original, unmasked, vulnerable and most real form. Whether or not each character is successful in navigating the seeming and being is at the focus of this discussion.

Sustainability in Hospitality

Abstract: Sustainability in the hospitality industry is a major emphasis for countless organizations going into the future. By analyzing existing companies, students in the Sustainability Tourism class examined multiple transportation, lodging, food & beverage and related businesses to create original sustainability concepts for new organizations. While each final project is individual, the HTM 317 students will present what their research revealed as a collaboration.
7:30–8:45  Graduate Paper Session

7:30–7:45  Nicholas Clement, Brian Gilbert, Patricia Huggins, and Linda Walls
          Department: Management Studies
          Faculty Mentor: Sharon Didier

**Emotional Intelligence and Business Strategy**

Abstract: Team efficiencies are an important part of the business transactions in the professional environment. Management rely on the effective operations in supporting the vision of the leaders who develop all of the goals and objectives for effective strategy implementation. The role of teams can be felt in every aspect of one’s professional development. Understanding ways to effectively develop and use the teams’ individual strengths can provide leaders with a template for team success. Understanding how to use effective models in understanding the role of each member in the group in addition to their contributions to the team can create efficiencies and shortcuts for successful teams. We will review how one of the models has been crucial in addressing the objectives of MGT 500.

7:50 – 8:05  Delyn Jackson
          Department: Management Studies
          Faculty Mentor: Sharon Didier

**An Analysis of the Factors that Impact Customer Sales in the Automotive Industry**

Abstract: The purpose of this research paper is to analyze the factors that affect automobile sales. The theory being that quality has the greatest effect on vehicle sales. The primary source of information is based on a Likert scale survey sent to a sample size of N=50 and secondary sources from various academic journals that deal with the factors analyzed in this paper. The information will be studied and run through statistical analysis (correlation, hypothesis test, linear regression, and descriptive statistics) to discover if there are any patterns or relationships between the data. The variables measured are quality, dependability, customer service index, performance, execution, and layout. These variables are measured against vehicle sales. The idea is to see which factor has the greatest effect on the decision to purchase a new automobile.
8:10 – 8:25 Adriane Esquilin, Robert Perkins, Katie Wenzler, and Terry Yarde
Department: Management Studies
Faculty Mentor: Sharon Didier

An Analysis of the Role of Managerial Abilities in Team Development

Abstract: We were assigned to be the evaluators of a debate on the Affordable Care Act. Based on the twenty managerial abilities that were the foundation of our MGT 500 course, we selected five managerial abilities to assess each team. From this evaluation we identified strengths and areas of development in each team’s presentation. Each team was assessed using the managerial abilities that are most applicable to group presentations. These included persuasiveness, oral communication, use of technology, efficiency orientation, and group management.

8:30 – 8:45 Nelson Ortiz
Department: Management Studies
Faculty Mentor: Sharon Didier

An Analysis of the Role of Overtime in Organizational Success in Non Profits

Abstract: The Obama Administration proposed a change in Exempt status which would drastically increase the number of overtime eligible workers around the country. The law did not go through on a national level, but an amended version went through in the state of New York. This study looks to understand the driving force behind overtime at ABC nonprofit organization, so the amount of overtime incurred can be keep to a minimum. Fifty employees at ABC nonprofit organization completed an anonymous survey. Linear regression, correlation analysis, and hypothesis testing were used analyze of the compiled data. The most common responses showed that overtime was a non-issue at the organization and Job Satisfaction and Morale were very important issues to the respondents. Hypothesis testing resulted in a $P(T<=t)$ two-tail of 0.0000001175922506 for Y variable – Overtime and X variable – Autonomy, a value that rejected the Ho. The correlations between Job Satisfaction and Morale were the most significant; the second most significant correlation took place between Autonomy and Productivity. The association between Overtime and employees being autonomous are not as significant as the association between Overtime and Job Satisfaction / Morale. Employees with higher Job Satisfaction and higher Morale would be less inclined to incur Overtime.

Many thanks to Gail Moran who is essential to the success of this conference each year and the faculty mentors at St. Joseph’s College, Brooklyn Campus, who gave their time to enhance the research experiences of their students.

Thank you,
Elizabeth Zollinger, Ph.D.
Director of Undergraduate Research, Brooklyn