

# Olivia Tirso

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## EDUCATION

**Kean University | Union, New Jersey**

**B.S. in Computer Science Information Systems | GPA: 3.5**

**Expected December 2025**

**Middlesex College | Edison, New Jersey**

**A.A. in Physical Education | GPA: 3.7**

**May 2023**

## TECHNICAL SKILLS

**Programming Languages:** Java & Python

**Operating Systems:** Windows, MacOS, Android, iOS

**Tech/Tools:** Eclipse, VScode & Google Colab

**Relevant Coursework:** Data Structures, Discrete Structures, IT Project Management, Computer Programming, Computer Systems

## AWARDS

**CASHI Conference Travel Scholarship 2023 & 2024**

**Dean's List: 2023 Fall & Spring**

**Freshmen Research Initiative (FRI) Research Stipend 2023**

**Improving Undergraduate STEM Education (IUSE) Research Stipend 2023**

**NSF CS/IT S-Stem Scholarship 2024**

**NSF/Build and Broaden Program Stipend 2024**

## EXPERIENCE

**Student Researcher | Freshmen Research Initiative, Kean University**

**May 2023 – July 2023**

- Created a program using Python, that develops a visual representation of hotel review data to identify key aspects and patterns using text processing and data analysis.

**Student Scholar | NSF Improving Undergraduate STEM Education**

**May 2023 – August 2023**

- Utilizing natural language processing techniques for text summarization and sentiment analysis in the context of hotel reviews.
- Offers an opportunity to investigate the practical applications of these methods.

**Undergraduate Research Fellow | NSF Build and Broaden Program**

**May 2023 – Present**

- Gathering and Visualize data using STATA and Python for Economic Conditions and the Gig Economy to measuring the Impact and Implications for Social Welfare Programs

## RESEARCH POSTER/PRESENTATIONS

**O. Tirso** and D. Kwak, "Simplifying Hotel Reviews: Sentiment Analysis and Review," in 35<sup>th</sup> Annual GMIS Conference, Pasadena, CA, October 11-14, 2023.

**O. Tirso** and D. Kwak, "Optimizing News Aggregation with Automated Text Summarization," in 36<sup>th</sup> Annual GMIS Conference, Fort Worth, TX, November 6-9, 2024. – in submission for review

## RESEARCH PROJECTS

**Analyzing Hotel Reviews: Sentiment Analysis and Topic Modeling for Summarization**

**June 2023 – September 2023**

- Contributes to the broad field of sentiment analysis and topic modeling.
- Explores techniques within the context of hotel reviews, offering a blueprint for similar analysis in other industries.

**News Aggregation through Text Summarization**

**June 2024 – September 2024**

- Developed and evaluated automated text summarization methods to address the issue of information overload caused by the increasing volume of daily news articles.
- Enhanced productivity and knowledge management through the creation of a system that optimizes information processing and aggregation.

## ACTIVITIES

**Member,** Association for Computing Machinery-Woman (ACM-W)

**September 2023 – Present**

**Member,** Association for Computing Machinery- (ACM)

**September 2023 – Present**