

# Bienuel Esmeralda

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## PRE-PROFESSIONAL EXPERIENCE

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### Student Statistician

*Department of Mathematics*

**Central Mindanao University**

*2024-present*

- As a student statistician, I use statistical tools like R Studio to gather, analyze, and make sense of complicated datasets. I use a variety of statistical methods to get useful information, make sure the data is correct and valid, and make clear visualizations to share my results in a clear way. I work closely with researchers to make sure that analyses are in line with project goals. This helps me write reports, give presentations, and publish papers that are based on data and help people make decisions based on facts.

### Event Head

*Department of Mathematics*

**Central Mindanao University**

*2022-2024*

- As the General Treasurer of the Department of Mathematics at Central Mindanao University – College of Arts and Sciences, I learned how to be a better leader, organizer, and communicator. This job gave me the responsibility of keeping track of money, preparing event liquidations, and making financial reports at the end of each semester. In addition to my duties as Treasurer, I also had the chance to be the Event Head for a number of important departmental events. Some of these were the yearly **Pi Day celebrations**, the **Mental Health Awareness campaign**, and the "**Mathenabangay: LaTeX Programming Workshop**" which was meant to give fourth-year math students the technical skills they needed to write their theses. I was able to lead teams, plan logistics, and help make events for the department that were important and had an impact through these experiences.

## EDUCATION

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- **CENTRAL MINDANAO UNIVERSITY**  
*Bachelor of Science in Mathematics minor in Statistics*  
*August 2020-July 2025*  
*Undergraduate Thesis: **Dynamic Interaction and Cooperative Defense in a Two Prey-One Predator Model: Bifurcation and Stability Analysis***
- **VALENCIA BAPTIST CHRISTIAN ACADEMY**  
*Junior High School and Senior High School*  
*June 2014 - March 2020*
- **VALENCIA SEVENTH-DAY ADVENTIST ELEMENTARY SCHOOL**  
*Elementary*  
*June 2008 - March 2014*

## LEADERSHIP AND CERTIFICATIONS

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- General Treasurer - CMU Mathematics Society 2022-2023
- Representative - CMU Mathematics Society 2023-2024
- Inspire Through Mathematics: A Mathematical Webinar Series Certificate
- CIMPA Course: Cyclotomic Numbers and Function Fields Certificate
- CMU Department of Mathematics Webinar: A talk on Software and Statistical Tools in Data Analysis Certificate

## SKILLS AND INTERESTS

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- **Marketing and Creative Skills:** Research and Design, Graphic Design, Customer Service Management, Project Management, Social Media Management, and Data Entry
- **Technical:** Programming languages (Python, MatLab, C, C++), Markup languages (LaTeX, HTML, CSS), Software proficiency (Microsoft Office, Adobe, WPS), Data analysis tool (R studio), Project management software (Asana, Hubspot), CMS (Squarespace, WordPress), Graphic Design (Canva, Capcut), VSDC Editor
- **Interests:** Technology-related activities, Art, Music, Video Games