

# JOY ANTONETTE CILLAR

## MATHEMATICS TEACHER

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### PROFILE SUMMARY

Experienced Mathematics teacher with six years of teaching college-level courses, such as mathematics, and statistics. Adept at simplifying complex concepts and fostering student understanding. Passionate about education and committed to continuous professional development to stay current with the latest trends and technologies.

### EDUCATION

#### PhD in Mathematical Sciences major in Applied Mathematical Sciences UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES

January 2021–  
December 2021

C.M. Recto Avenue Lapasan, Cagayan de Oro City, Misamis Oriental 9000

- Units obtained: 9 units of bridging courses and 12 units of core courses.

#### Master of Science in Mathematics CEBU NORMAL UNIVERSITY

June 2014 – March 2018

Osmeña Boulevard, Cebu City, Cebu 6000

- Year obtained: 2018
- Award received: Best in Thesis

#### Bachelor of Science in Mathematics MINDANAO STATE UNIVERSITY-MAIN

June 2006–March 2010

Marawi City, Lanao del Sur 9700

- Year obtained: 2010
- Scholarship Grant: University Academic Scholarship

#### CARAGA REGIONAL SCIENCE HIGH SCHOOL

June 2002–March 2006

Roland Sering St., Surigao City, Surigao del Norte 8400

#### MARIANO ESPINA MEMORIAL CENTRAL ELEMENTARY SCHOOL

June 1996–March 2002

Navarro St., Surigao City, Surigao del Norte 8400

### ELIGIBILITY

#### Career Service Professional

- Rating: 81.29%
- Place of Examination: Agusan National High School, Butuan City, Agusan del Norte 8600
- Date of Examination: October 17, 2010

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## WORK EXPERIENCE

### **Instructor II**

June 1, 2018–present

UNIVERSITY OF SAN JOSE–RECOLETOS

Magallanes St., Ermita, Cebu City, Cebu 6000

- Design and teach college-level mathematics and statistics courses, assess students' performance, conduct research, and provide academic support and mentorship.

### **Customer Service Representative I**

December 19, 2017–February 10, 2018

TELETECH

eBloc 2 Tower, Asia Town IT Park, Lahug, Cebu City, Cebu 6000

- Assist customers with mobile network inquiries and issues, process service requests, and ensure a high level of customer satisfaction through effective communication and problem-solving.

### **Part-time Instructor**

June 1, 2016–October 31, 2016

UNIVERSITY OF SAN JOSE–RECOLETOS

Magallanes St., Ermita, Cebu City, Cebu 6000

- Design and teach college-level mathematics courses, such as algebra, trigonometry, and linear algebra, and assess students' performance.

### **Technical Support Associate I**

March 11, 2013–January 2, 2015

CONVERGYS

i2, Asiatown IT Park, Lahug, Cebu City, Cebu 6000

- Provide technical support for Windows and Microsoft Office products by diagnosing issues, resolving problems via remote access, and guiding customers through troubleshooting steps.

### **Technical Support Professional I**

May 23, 2011– January 4, 2013

STREAM GLOBAL SERVICES

i2, Asiatown IT Park, Lahug, Cebu City 6000

- Provide technical support for Internet Service Provider (ISP) services by diagnosing connectivity issues, resolving problems through troubleshooting, and assisting customers with service setup and technical inquiries.

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## MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

### **Mathematical Society of the Philippines Region 7**

- Years active: 2018–2021, 2023–present

### **Mathematics Teachers Association of the Philippines Tertiary Level, Inc**

- Years active: 2019–2023
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## RESEARCH INTEREST

### Enumerative Combinatorics

- Studies on the properties of bell-type, lah-type and stirling-type numbers

### Optimization

- Studies related to the use of Math programming to develop and improve algorithms for solving complex optimization problems

### Decision Analysis

- Studies related to the use of Multi-Criteria Decision Making and Analytic Hierarchy Process (AHP) to make informed decisions under uncertainty

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## PUBLICATIONS

### A $(p,q)$ -analogue of the $Q_i$ formula for $r$ -Dowling numbers

- Published in Southeast Asian Bulletin of Mathematics, Vol.45(1) (2021), pp. 29–42 (Indexed by Web of Science (SCIE))

### A $q$ -analogue of $Q_i$ formula for $r$ -Dowling numbers

- Published in Communications of the Korean Mathematical Society, Vol. 35(1) (2020), pp. 21–41 (Indexed by Web of Science (SCIE) and SCOPUS)

### Analogies of the $Q_i$ formula for some Dowling type numbers

- Published in Utilitas Mathematica, Vol. 111 (2019), pp. 3–26. (Indexed by Web of Science (SCIE) and SCOPUS)

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## CONSULTANCY SERVICE

### AS A RESOURCE SPEAKER

- Title: Analytic Hierarchy Process (AHP)
- Date: February 11, 2024
- Organized by: Center for Policy, Research and Development Studies, University of San Jose-Recoletos

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## CONFERENCES ATTENDED

### 2024 Mathematical Society of the Philippines (MSP) Convention

- Role: Participant
- Date: May 30 – June 2, 2024
- Held at: University of the Philippines Tacloban, Tacloban, Leyte 6500

## **2022 Mathematical Society of the Philippines (MSP) Region VII Research Congress and Convention**

- Role: Participant
- Date: December 2 and 9, 2022
- Platform used: Zoom

## **2018 Mathematical Society of the Philippines (MSP) Cebu Research Congress and Convention**

- Role: Paper presenter
- Paper presented:  $Q_i$  Formula for the  $q$ -analogue of  $r$ -Dowling numbers
- Date: December 6–7, 2018
- Held at: St. Mark Hotel, Camputhaw, Cebu City, Cebu 6000

## **2017 Cebu Normal University Research Congress**

- Role: Poster presenter
- Poster presented: A New Explicit formula for Dowling and  $r$ -Dowling numbers
- Date: December 1, 2017
- Held at: Cebu Normal University, Osmeña Boulevard, Cebu City, Cebu 6000
- Award received: Best Poster Presentation Student Category

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## **TRAININGS & WORKSHOPS ATTENDED**

### **EFFECTIVE RESEARCH ADVISING AND PANELING**

- Date: November 9–10, 2023
- Organized by: Center for Policy, Research and Development Studies, University of San Jose–Recoletos
- Held at: University of San Jose–Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Data Analyst Training–Workshop**

- Date: October 24–26, 2023
- Organized by: Center for Policy, Research and Development Studies, University of San Jose–Recoletos
- Held at: University of San Jose–Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Structural Equation Modeling (SEM)**

- Date: April 13–15, 2023
- Organized by: Center for Policy, Research and Development Studies, University of San Jose–Recoletos
- Held at: University of San Jose–Recoletos, Magallanes St., Cebu City, Cebu 6000

### **The Teaching and Application of Research Ethics**

- Date: May 23–24, 2022
- Organized by: International Association of Research Ethics Across Disciplines
- Platform used: Zoom

## **Combinatorial and Statistical Applications of Generalized Bell Numbers and their Hankel Transform**

- Date: September 30 – October 2, 2019
- Organized by: Research Institute for Computational Mathematics and Physics, Cebu Normal University
- Held at: Azia Suites and Residences, Brgy. Kamputhaw, Cebu City, Cebu 6000

## **Faculty Training for the New General Education Core Courses**

- Completed the training for the sessions of the course Mathematics in the Modern World
  - Date: May 28–June 2, 2018
  - Organized by: University of San Jose–Recoletos
  - Held at: University of San Jose–Recoletos, Magallanes St. Cebu City, Cebu 6000
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## **FACULTY DEVELOPMENT AND SEMINARS ATTENDED**

### **Teaching Critical Thinking in Engineering, Math, and Physical Sciences**

- Date: September 2, 2023
- Organized by: University of San Jose–Recoletos
- Platform used: Zoom

### **Master Class in Teaching Research**

- Date: December 1–3, 2022
- Organized by: Research and Grants Management Office, De La Salle University
- Platform used: Zoom

### **Teach Talk: How to Teach and Manage your Gen Z Class (Mathematics in the Modern World Edition)**

- Date: September 5, 2022
- Organized by: General Education Center, University of the Philippines
- Platform used: Zoom

### **Teach Talk: How to Teach and Manage your Gen Z Class (Science, Technology and Society Edition)**

- Date: July 8, 2022
- Organized by: General Education Center, University of the Philippines
- Platform used: Zoom

### **Teach Talk (The Contemporary World Edition)**

- Date: June 6, 2022
- Organized by: General Education Center, University of the Philippines
- Platform used: Zoom

### **Online Formative and Authentic Assessment Strategies**

- Date: June 10, 2021
- Organized by: Office of Curriculum and Instruction, University of San Jose–Recoletos
- Platform used: MS Teams

### **Effective Research Advising and Paneling**

- Date: May 26, 2021
- Organized by: Center for Policy, Research and Development Studies, University of San Jose–Recoletos
- Platform used: Zoom

### **Programming and Machine Learning and its Application**

- Date: May 22, 2021
- Organized by: Department of Chemistry and Physics, Cebu Normal University
- Platform used: Zoom

### **Basic Statistics Using Minitab**

- Date: April 8, 2021
- Organized by: Center for Policy, Research and Development Studies, University of San Jose-Recoletos
- Platform used: Zoom

### **Information Technology Tools for Online Distance Learning**

- Date: November 21, 2020
- Organized by: HRMO, University of San Jose-Recoletos
- Platform used: Zoom

### **Online Assessments and Google Forms**

- Date: November 21, 2020
- Organized by: The Regional English Language Office, U.S. Embassy in the Philippines
- Platform used: Zoom

### **Designing and Assessing Online Courses: Synchronous and Asynchronous**

- Date: November 14, 2020
- Organized by: HRMO, University of San Jose-Recoletos
- Platform used: Zoom

### **Implementing Synchronous and Asynchronous Modes with the Use of OER Technology Applications**

- Date: September 26, 2020
- Organized by: School of Arts and Sciences, University of San Jose-Recoletos
- Platform used: Zoom

### **Planning and Assessment of Online Classes**

- Date: September 19, 2020
- Organized by: School of Arts and Sciences, University of San Jose-Recoletos
- Platform used: Zoom

### **2020 Mathematics Teachers Association of the Philippines Tertiary Level Inc. (MTAP-TL) Annual Convention with the theme Teaching in the New Normal: Developing Flexible Learning Options**

- Date: July 4 and 11, 2020
- Organized by: Mathematics Teachers Association of The Philippines, Tertiary Level Inc.
- Platform used: Zoom

### **GE Science, Technology and Society Training**

- Date: November 11-12, 2019
- Organized by: Department of Mathematics and Sciences, University of San Jose-Recoletos
- Held at: University of San Jose-Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Retooling for Mathematics Faculty to teach Mathematics in the Modern World**

- Date: June 19, 2019
- Organized by: Department of Mathematics and Sciences, University of San Jose-Recoletos
- Held at: University of San Jose-Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Learner Centered Perspectives in the Teaching of Mathematics in the Modern World**

- Date: May 18, 2019
- Organized by: Mathematics Teachers Association of The Philippines, Tertiary Level Inc.
- Held at: Visayas State University, Visca, Baybay, Leyte 6521

### **Managing 21st Century Classrooms**

- Date: September 29, 2018
- Organized by: HRMO, University of San Jose-Recoletos
- Held at: University of San Jose-Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Designing, Implementing and Evaluating Class Session Guide/Plan**

- Date: September 15, 2018
- Organized by: HRMO, University of San Jose-Recoletos
- Held at: University of San Jose-Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Integrating 21st Century Strategies in the Classroom**

- Date: September 8, 2018
- Organized by: HRMO, University of San Jose-Recoletos
- Held at: University of San Jose-Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Utilizing the Art of Questioning Techniques in the Classroom vis-a-vis Constructing Objective Test Items**

- Date: September 1, 2018
- Organized by: HRMO, University of San Jose-Recoletos
- Held at: University of San Jose-Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Integrating Values and Social Issues in the Classroom**

- Date: August 25, 2018
- Organized by: HRMO, University of San Jose-Recoletos
- Held at: University of San Jose-Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Ethics and Professionalism in the Workplace**

- Date: August 11, 2018
- Organized by: HRMO, University of San Jose-Recoletos
- Held at: University of San Jose-Recoletos, Magallanes St., Cebu City, Cebu 6000

### **Seminar-Workshop on Dynamical Systems and Ergodic Theory**

- Date: February 11-14, 2015
- Organized by: Department of Mathematics, Cebu Normal University
- Held at: Danao Coco Palms Resort, Danao City, Cebu

### **Seminar-Workshop on Graph Theory and Projective Geometry**

- Date: October 18-21, 2014
- Organized by: Department of Mathematics, Cebu Normal University
- Held at: Emma Center, Cebu Normal University

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## REFERENCES

**Mr. Jonecis Dayap**

Faculty, Department of Mathematics and Sciences  
University of San Jose-Recoletos  
09192343305

**Dr. Edward Kiunisala**

Chairman, Department of Mathematics  
Cebu Normal University  
09324412903