

## MICOMPAL

### Maria Theresa Mae M.

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## EDUCATION

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### Master of Science in Physics

Mindanao State University – Iligan Institute of Technology  
“Development of Pillar Arrays for Mechanotaxis Study of *Physarum polycephalum*”  
DOST-ASTHRDP Scholar  
*July 2024*

### Bachelor of Science in Physics

Mindanao State University – Iligan Institute of Technology  
“Elucidating the Node Dynamics of a Foraging *Physarum polycephalum* using the Lévy’s Stochastic Area”  
DOST-SEI Scholar  
*January 2018*

## WORK EXPERIENCE

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### Project Technical Assistant

Mindanao State University – Iligan Institute of Technology  
“e-Asia Joint Research Program: Development of Innovative Nanodevices Based on Hybrid Materials by Combination of Endemic South Asian Biomolecules and Nanocarbons” (DOST-PCIEERD)  
*April 2023 – May 2024*

### Research Assistant

“3D Migration and Associated Wavefront Patterns of *Physarum polycephalum* on a Soft Elastic Substrate under Electrotaxis”  
Mindanao State University – Iligan Institute of Technology  
*February – March 2022*

### **Science Research Analyst**

Mindanao State University – Iligan Institute of Technology

“e-Asia Joint Research Program: Development of Innovative Nanodevices Based on Hybrid Materials by Combination of Endemic South Asian Biomolecules and Nanocarbons” (DOST-PCIEERD)

*November 2020 – November 2022*

### **Research Assistant**

“Complex Approaches to the D3NP Program Phase I: Development of Analytical Numerical and Experimental Tools”

Mindanao State University – Iligan Institute of Technology

*August – December 2017*

## **PUBLICATIONS**

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### **Excitable dynamics of *Physarum polycephalum* plasmodial nodes under chemotaxis**

Rosario L. Reserva, **Maria Theresa Mae M. Micompal**, Kathleen C. Mendoza, Mark Nolan P. Confesor. Biochemical and Biophysical Research Communications, Volume 550, 2021, 171-176. <https://doi.org/10.1016/j.bbrc.2021.02.133>

## **CONFERENCES**

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### **2023 International Conference for Advanced Functional Materials and Nanotechnology**

Optical properties of SWCNT - Cellulose conjugate

*Poster Presenter*

Mindanao State University – Iligan Institute of Technology, Iligan City

*October 2023*

### **2022 International Conference for Advanced Functional Materials and Nanotechnology**

First-principles study of optical properties of SWCNT/cellulose

*Poster Presenter*

*Neutrino Loyalty Awardee*

MetroCentre Hotel and Panda Tea Garden Suites, Tagbilaran City

*October 2022*

### **23<sup>rd</sup> SPVM National Physics Conference: CONVIRTUALISATION**

Live via Zoom meeting

*October 2021*

## **22<sup>nd</sup> SPVM National Physics Conference: CONVIRTUALISATION**

Live via Zoom meeting

*October 2020*

## **21<sup>st</sup> SPVM National Physics Conference**

Development of Pillar Arrays for Mechanotaxis Study of *Physarum polycephalum*

*Oral Presenter*

*Photon Loyalty Awardee*

Mapua University, Intramuros, Manila

October 2019

## **20<sup>th</sup> SPVM National Physics Conference**

Almont Inland Resort, Butuan City

*October 2018*

## **5<sup>th</sup> International Meeting on Complex Systems**

“Elucidating the Node Dynamics of a Foraging *Physarum polycephalum* using the Lévy’s Stochastic Area”

*Poster Presenter*

University of San Carlos – Talamban Campus, Cebu City

*October 2017*

## **4<sup>th</sup> International Meeting on Complex Systems**

“Elucidating the Node Dynamics of a Foraging *Physarum polycephalum* using the Lévy’s Stochastic Area: A Progress Report”

*Poster Presenter*

Silliman University, Dumaguete City

*October 2016*

## **TRAININGS AND SEMINARS**

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### **Sakura Science Exchange Program**

Tokyo University of Science, Tokyo, Japan

*September 2023*

### **FluoroMax Series and Fluorescence Spectroscopy**

HORIBA Instruments (Singapore) Pte Ltd.

*January 2023*

### **Optimizing your natural products and nano materials research through enhanced and innovative technology**

Mindanao State University – Iligan Institute of Technology

*November 2022*

**Basic Operation and Maintenance Training of Berghof Digestec DAB 3**

Mindanao State University – Iligan Institute of Technology

*August 2022*

**Training for Horiba Scientific Fluoromax Plus Benchtop Spectrofluorometer**

Mindanao State University – Iligan Institute of Technology

*July 2022*

**TECHNICAL SKILLS**

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**Research and Data Analysis**

Microsoft Office (Word, Excel and Powerpoint), Google Workspace (Docs, Sheets, Slides, Forms), OriginPro, Fiji, LaTeX, Spectroscopy

**Fabrication**

SolidWorks, 3D Printing, Soft Lithography

**SOFT SKILLS**

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**Verbal and Written Communication**

English, Filipino, Visayan

**Interpersonal**

Emotional Intelligence and People Skills, Adaptability, Problem-solving skills, Teamwork Skills, Organization and Management Skills, Accountable, Administrative and Customer Service Skills