



Central Michigan University  
Michigan, USA

# ICMI-2024

3rd International Conference on Computing  
and Machine Intelligence  
April 13-14, 2024

## PARTICIPATION CERTIFICATE

*This is to certify that*

**Jayden Liu**

has participated in ICMI-2024 conference and presented  
a paper titled:

**Optimization of Aquaponics System Efficiency Based on  
Artificial Intelligence Approach**

A handwritten signature in blue ink, appearing to read "Ahmed", positioned above the name of the General Chair.

**Dr. Ahmed Abdelgawad**

**General Chair**



**CENTRAL**  
MICHIGAN UNIVERSITY



Northeast Michigan  
USA