CRIZZIA MIELLE
DE CASTRO

+639176254141 📞
cmdecastro@up.edu.ph ✉
https://github.com/cmdecastro 🌐

RESEARCH INTERESTS

climate modelling, analog forecasting, tropical meteorology, remote sensing

EDUCATION

MS Meteorology | University of the Philippines Diliman
AUGUST 2020 – PRESENT

BS Applied Physics (Instrumentation) | University of the Philippines Diliman
AUGUST 2015 – JULY 2020
Magna cum laude
Adviser: May T. Lim, PhD
Thesis title: Extracting Philippine voting patterns through hyperspectral unmixing

High School Diploma | Philippine Science High School – Main Campus
JUNE 2011 – MARCH 2015
High Honors

ESSENTIAL SKILLS

Programming
Python (expert), MATLAB (intermediate), MySQL (beginner), R (beginner), C++ (beginner), Java (beginner), HTML (beginner)

Research
More than five years' experience in scientific research, writing, and communication

Others
LaTeX (expert), QGIS (beginner)

RESEARCH AND DEVELOPMENT INVOLVEMENT

Student Researcher | Data Analytics for Research and Education (DARE) under CHED-PCARI
2018 - 2020

Student Researcher | Complex Systems Team, Instrumentation Physics Laboratory, National Institute of Physics, Philippines
2018 – 2020

Student Researcher | Atmospheric Physics Laboratory, Institute of Environmental Science and Meteorology, University of the Philippines Diliman
2020 - CURRENT

WORKSHOPS AND CONFERENCES

International
Malaysia International Young Inventors Olympiad | Penang, Malaysia
2015
Our research titled *Creation of an Alternative Industrial Filtration Device Utilizing Banana and Orange Peels* won a *Gold Award* and one of the ten *Special Jury Award*.

Local

38th Samahang Pisika ng Pilipinas Physics Conference | Zoom teleconference
OCTOBER 2020
Short Presentation

37th Samahang Pisika ng Pilipinas Physics Conference | Bohol, Philippines
JUNE 2019
Poster Presentation

PUBLICATIONS

1. CMM de Castro and MT Lim, Extracting voting patterns across three Philippine senate elections using hyperspectral unmixing, *Proceedings of the Samahang Pisika ng Pilipinas* 38, SPP-2020-2A-06 (2020). URL: proceedings.spp-online.org/article/view/SPP-2020-2A-06.
2. CMM de Castro and MT Lim, Determining senatorial voting archetypes through hyperspectral unmixing, *Proceedings of the Samahang Pisika ng Pilipinas* 37, SPP-2019-PB-32 (2019). URL: proceedings.spp-online.org/article/view/SPP-2019-PB-32.

ORGANIZATION ACTIVITIES

UP Astronomical Society | University of the Philippines (UP) Diliman
2016 – PRESENT
- Active member
  - Education and Research Cluster (Committee) member
  - Observation and Instrumentation Cluster (Committee) member
  - UP Alternative Classroom Learning Experience head organizer
  - Collision: An Astronomy Quiz Show 2018 head organizer
- National Astronomy Week 2018 Logistics Director
- Education and Research Cluster Coordinator (2018-2019)
- International Observe the Moon Night Celebration 2020 Logistics Director

UP Environmental Science & Meteorology Society| University of the Philippines (UP) Diliman
2020 – PRESENT
Member

UP Data Science Society | University of the Philippines (UP) Diliman
2021 – PRESENT
Core Team

SCHOLARSHIPS

Undergraduate Merit Scholarship | Department of Science and Technology - Science Education Institute
2015-2020
Accelerated Science and Technology Human Resource Development Program | Department of Science and Technology - Science Education Institute
2020-PRESENT

AWARDS AND RECOGNITIONS

Youth Excellence in Science Award | Department of Science and Technology - Science Education Institute
2016

Consistent University/College Scholar | University of the Philippines Diliman
2015-2020