

Personal Data

Name: KRYSTAL KRISTIA MAE P. GONZALES
Address: Higuloan, Baybay City, Leyte, Philippines
Contact info.: +639515119888
Date of Birth: October 22, 1995
Place of Birth: Baybay City, Leyte
Civil Status: Single
Email: kpgonzales5@up.edu.ph



Professional Summary

I hold a Master's degree in Microbiology, venturing in studies involving soil microbial communities, their quantification, and profiling. Currently engaged in research focused on rehabilitating mined-out areas using native tree species treated with microbial inoculants. Actively seeking opportunities to enhance my knowledge and gain additional experience through collaboration with accomplished experts in the field and to be able to share these experiences to the new generation of students.

Education

- ❖ **Master of Science in Microbiology minor in Molecular Biology and Biotechnology**
University of the Philippines Los Baños
Los Baños, Laguna, Philippines
August 2, 2017- July 2023
 - ❖ **Bachelor of Science in Biology major in Ecology**
Visayas State University
Visca, Baybay City, Leyte
Cum Laude
June 2012-April 2016
 - ❖ **Baybay National High School**
30 de Diciembre St., Baybay City, Leyte
5th honourable mention
June 2008-March 2012
 - ❖ **Higulo-an Elementary School**
Higulo-an, Baybay City, Leyte
Valedictorian
June 2002-March 2008
-

Name: KRYSTAL KRISTIA MAE P. GONZALES

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Research Focuses/ Title of Dissertation

Focuses: Microbiology, Metagenomics, Bioinformatics, Enzyme assay

Title: Fungal diversity analysis of soils from forest-over-limestones at Taft, Eastern Samar, Philippines and screening for mold carbonic anhydrase.

Employment record

1 April 2023 – 31 December 2024	University Research Associate National Institute of Molecular Biology and Biotechnology (NIMBB (BIOTECH))- UPLB University of the Philippines Los Baños, Laguna
January 2023 – March 2023	Senior Research Associate NIMBB (BIOTECH))- UPLB University of the Philippines Los Baños, Laguna
September 2022 - December 2022	Junior Project Associate NIMBB (BIOTECH)- UPLB University of the Philippines Los Baños, Laguna
January 2022 - August 2022	University Research Associate II NIMBB (BIOTECH)- UPLB University of the Philippines Los Baños, Laguna
October 2021 - December 2021	University Research Associate I NIMBB (BIOTECH)- UPLB University of the Philippines Los Baños, Laguna
August 2016 - July 2017	Part-time/Substitute instructor Department of Biological Sciences Visayas State University Main Campus Visca, Baybay City, Leyte

Research Experience

Research Title: Greening copper mined-out areas in Toledo, Cebu

Institution: NIMBB (BIOTECH)- UPLB

Date: April 1, 2023 – December 31, 2024

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Research Title: Enhanced Soil Quality and Yield of Cacao and Coffee in Acidic Agroforest Ecosystems in Laguna and Batangas Through Amendments with Biochar, Microbial Biofertilizers and Vermicompost

Institution: NIMBB (BIOTECH)- UPLB

Date: January 1, 2022 – August 31, 2022

Research Title: Taxonomic and Functional Diversity Profiling of Soil Rhizosphere Microbial Communities in Forest over Limestone Ecosystem

Institution: Institute of Biological Sciences (IBS)-CAS- UPLB

Date: October 2019 – August 2023

Publications

Gestiada, EC, **Gonzales, KKMP**, Gilbero, DM, Tamparong, B and Aggangan NS. 2024. A Comparison of Microbial Technologies on Growth and Phytoremediation Potentials of *Syzygium accuminatissimum* (Blume) DC. in Heavy Metal-Contaminated Environment. *The Philippine Journal of Crop Science* Vol. 49 Issue no. 2 pp. 24-36

Gonzales KKMP, Aggangan NS, Gestiada EC. 2023. Efficacy of biochar-biofertilizer-vermicompost treatment on *Theobroma cacao* and rhizosphere soil microbial population. *IOP Conf. Ser.: Earth Environ. Sci.* 1145 012007

Victoria, KS, **Gonzales KKMP**, Aggangan NS. 2022. Influence of biochar and biofertilizer mixture on *Coffea* spp. planted in an agroforestry ecosystem. *IOP Conf. Ser.: Earth Environ. Sci.* 1145 012007

Gonzales KKMP and Bitacura JG. 2018. Antioxidant and Antibacterial Screening of Makahiya (*Mimosa pudica* L.) Collected from Three Sites in Baybay City, Leyte, Philippines. *Journal of Society & Technology* 8:1-10.

Certifications / Trainings

November 6, 2024	UPLB Library's InfoLit Advanced and Publishing a Paper NIMBB (BIOTECH)- UPLB
December 11, 2023	BIOTECH Seminar on Culture Collection of Microorganisms NIMBB (BIOTECH)- UPLB
August 10, 2023	Introduction to Principal Component Analysis workshop NIMBB (BIOTECH)- UPLB

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July 9, 2022 – July 31, 2022 Mycology Summer Camp 2022
Filipino Science Hub

January 20, 2020–February 28, 2020 Bioinformatics Training and Internship Program
Philippine Genome Center, University of the Philippines
Diliman, Quezon City

Conference Presentations

July 10-11, 2024 National Academy of Science and Technology (NAST),
Philippines, 46th annual scientific meeting
The Manila Hotel, Manila

As poster presenter (Study: *Impact of Microbial Amendments on Growth and Biomass Accumulation of the Three Native Tree Species*)

March 12, 2024 2024 Annual Scientific Conference and 91st National
Research Council of the Philippines General Membership
Assembly
Philippine International Convention Center, Pasay City

As poster presenter (Study: *Influence of Microbial Fertilizers on the Growth, Biomass Accumulation and Soil Microbial Counts of the Three Native Tree Species*)

1st place winner

July 12-13, 2023 National Academy of Science and Technology (NAST),
Philippines, 45th annual scientific meeting
The Manila Hotel, Manila

As poster presenter (Study: *Effects of Biochar-Mycorrhizal Fertilizer Amendment on Cacao (Theobroma cacao) and Coffee (Coffea spp.) in Agroforest Ecosystems in Laguna and Batangas*)

November 15-16, 2022 4th International Conference in Agroforestry 2022
(ICAF2022)
Promenade Hotel, Kota Kinabalu Sabah, Malaysia

As oral presenter (Study: *Efficacy of Biochar-biofertilizer-vermicompost Treatment on Theobroma cacao and Rhizosphere Soil Microbial Population*)

November 29 and December 6, 2021 14th University of the Philippines Los Baños-College of Arts
and Sciences Student-Faculty Research Conference

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As presenter (Study: *Taxonomic and functional metagenomic profiling of the soil microbial community in a forest-over-limestone ecosystem using shotgun metagenomics*)

2nd place winner; Best Oral Paper in Biological, Mathematical, and Physical Sciences – Junior Staff Category