

PROGRAMME

I.	Academic Procession		
II.	Entrance of Colors and National Anthem		
III.	Welcome Remarks	Dr. Giovanni A. Tapang Dean	
IV.	Introduction of the Guest Speaker	Dr. Lillian Jennifer V. Rodriguez Associate Dean for Student, Alumni and Public Affairs	
V.	Keynote Address	Raymundo Cipriano P. Cayabyab National Artist for Music	
VI.	Presentation of Token to the Guest Speaker		
VII.	Special Recognition of Retired Faculty and Staff		
VIII.	Presentation of Graduates	National Institute of Physics	
		National Institute of Molecular Biology and Biotechnology	
		Institute of Mathematics	
		Materials Science and Engineering Program	
		Marine Science Institute	
		National Institute of Geological Sciences	
		Institute of Environmental Science and Meteorology	
		Institute of Chemistry	
		Institute of Biology	

IX. Dean's Medallions

X. Response in behalf of the 2021-2022 MS/PhD Graduates

Response in behalf of the XI. 2021-2022 BS Graduates

Closing Remarks XII.

UP Naming Mahal XIII.

Recessional XIV.

Cherrie May M. Olaya

Most Outstanding Ph.D. Graduate

Peter John M. Burgos

Excellence in B.S Studies

Dr. Eizadora T. Yu

Associate Dean for Mentoring, Academic Progress and

Advancement

2021-2022 RECIPIENTS OF THE DEAN'S MEDALLION

<u>LETICIA SHAHANI AWARD FOR BEST</u> UNDERGRADUATE THESIS OR RESEARCH PAPER

Applied Physics: Richelle Jade L. Tuquero

Undergraduate Thesis: "Influence of harmonic confinement and contact

interaction in an atom-cavity system"

Adviser: Dr. Jayson Cosme

Physics: Jesus Miguel Yulo, II

Undergraduate Thesis: "Dynamics and strange attractors of stellar

pulsation in one-zone models of long-period

variable stars"

Adviser: Dr. Michael Francis Ian Vega, II

Mathematics:: Margaret Esther C. Cruz

Undergraduate Thesis: "Application of the Coloring-Book Approach in

Finding the Coordination Sequences for Some

Uniform Tilings"

Adviser: Dr. Manuel Joseph Loquias

Geology: Layla Gabrielle B. Sevilla

Undergraduate Research Paper: "Influence of the COVID-19 pandemic on the

water clarity of aquaculture areas in the

philippines"

Advisers: Dr. Carlos Primo David

Chemistry: Lorenzo Angelo M. Mapalo

Undergraduate Thesis: "Conferring Color and Antibacterial Properties on

Cotton Fabric using Green-Synthesized Gold and

Silver Nanoparticles"

Adviser: Dr. Michelle D. Regulacio

Biology: Skyla Dennise U. Diaz

Undergraduate Thesis: "Assessment of Acoustic Indices as Proxies for

Avian Species Richness in the National Science Complex, University of the Philippines Diliman"

Adviser: Jelaine Gan and Dr. Giovanni Tapang

CS EXCELLENCE AWARD FOR OUTSTANDING B.S. GRADUATES

Applied Physics	Jerico Miguel T. Rangel	Magna Cum Laude
Physics	Marc Cyrel M. Magnawa	Summa Cum Laude
Molecular Biology	John Rafael F. Ambag	Summa Cum Laude
Mathematics	Peter John M. Burgos	Summa Cum Laude
Geology	Hannah Yvette P. Bumanglag	Magna Cum Laude
Chemistry	Janrick G. Cayetano	Summa Cum Laude
Biology	Kris Jypson T. Esturas	Summa Cum Laude

DR. EDGARDO D. GOMEZ AWARD

Cherrie May Mogueis Olaya

B.S. Applied Physics; University of the Philippines, Diliman; 2013; M.S. Physics;

University of the Philippines, Diliman; 2017

Dissertation Title "Surface Plasmon Resonance-Enhanced Goos-Hänchen

Shift and its Sensing Device Application"

Co-Adviser Dr. Nathaniel P. Hermosa II, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Takuo Tanaka, Team Leader, Innovative Photon

Manipulation Research Team, RIKEN Center for Advanced

Photonics, Japan

EXCELLENCE IN B.S. STUDIES

Summa Cum Laude

Peter John M. Burgos

Undergraduate Thesis "On Umbral Methods of Integration"

Co-Adviser Polly W. Sy, Ph.D., D.Sc. Co-Adviser Olive R. Cawiding, M.Sc.

MOST OUTSTANDING M.S. GRADUATE

Mae Ashley Gloria Nacario

B.S. Biology; University of the Philippines, Los Baños; 2011

Master's Thesis "DNA Fingerprinting Using BOX-A1R and (GTG)₅

Primers to Identify Spatial Variations of Fecal

Contamination along Pasig River, Philippines"

Adviser Dr. Windell L. Rivera, Professor, Institute of Biology,

College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

MOST OUTSTANDING Ph.D. GRADUATE

Cherrie May Mogueis Olaya

B.S. Applied Physics; University of the Philippines, Diliman; 2013; M.S. Physics;

University of the Philippines, Diliman; 2017

Dissertation Title "Surface Plasmon Resonance-Enhanced Goos-Hänchen

Shift and its Sensing Device Application"

Co-Adviser Dr. Nathaniel P. Hermosa II, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Takuo Tanaka, Team Leader, Innovative Photon

Manipulation Research Team, RIKEN Center for Advanced

Photonics, Japan

CANDIDATES FOR GRADUATION

NATIONAL INSTITUTE OF PHYSICS

DOCTOR OF PHILOSOPHY (PHYSICS)

As of Second Semester, AY 2020 - 2021

Bess Garcia Singidas

B.S., M.S. Physics; University of the Philippines, Diliman; 2004, 2006

Dissertation Title "Optoelectronics in the Graphene-GaAs Interface"

Adviser Dr. Roland V. Sarmago, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2021-2022

Neil Irvin Fermin Cabello

B.S. Applied Physics; University of the Philippines, Diliman; 2010; M.S. Physics;

University of the Philippines, Diliman; 2012

Dissertation Title "Terahertz Emission Characteristics of Silicon

Nanostructure-Coated Gallium Arsenide Photoconductive

Antenna"

Adviser Dr. Armando S. Somintac, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Cherrie May Mogueis Olaya

B.S. Applied Physics; University of the Philippines, Diliman; 2013; M.S. Physics;

University of the Philippines, Diliman; 2017

Dissertation Title "Surface Plasmon Resonance-Enhanced Goos-Hänchen

Shift and its Sensing Device Application"

Co-Adviser Dr. Nathaniel P. Hermosa II, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Takuo Tanaka, Team Leader, Innovative Photon

Manipulation Research Team, RIKEN Center for Advanced

Photonics, Japan

As of Second Semester, AY 2021-2022

Francesca Isabel Narciso De Vera

B.S. Physics; Polytechnic University of the Philippines; 2004; M.S. Physics;

University of the Philippines, Diliman; 2012

Dissertation Title "Superconductivity and Grain Coupling Behaviour of

Bi₂Sr_{2-X}In_xCaCu₂O_{8+D} (In-Doped Bi-2212) Bulks and

Films"

Adviser Dr. Roland V. Sarmago, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Vladimir Paat Villegas

B.S., M.S. Physics; University of the Philippines, Diliman; 2014, 2018

Dissertation Title "Refrigeration and Spin Transport in a One-Dimensional

Fermi-Hubbard Optical Lattice Exposed to External

Electromagnetic Fields and a Fermi Gas Bath"

Adviser Dr. Cristine DLR Villagonzalo Professor Na

Adviser Dr. Cristine DLR. Villagonzalo, Professor, National Institute of Physics, College of Science, National Science

Complex, University of the Philippines, Diliman, Quezon

INSTITUTE OF MATHEMATICS

DOCTOR OF PHILOSOPHY (MATHEMATICS)

As of Midyear 2021

Dennis Llemit

B. Secondary Education; University of the Philippines, Diliman; 2007; M.S. Applied

Mathematics; University of the Philippines, Diliman; 2010

Dissertation Title "Portfolio Optimization in a Regime Switching Jump

Diffusion with Delay Market Model"

Adviser: Dr. Jose Maria L. Escaner IV, Professor, Institute of Mathematics, College of

Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

Lu Kevin Sy Ong

B.S. Mathematics; University of the Philippines, Diliman; 2012; PMAM; University of the Philippines, Diliman; 2014

Dissertation Title "On the Propagation of Chaos for Recombination Models

and Exponential Decay of Free Energy"

Adviser Dr. Jose Maria L. Escaner IV, Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

As of Second Semester, AY 2021-2022

Dom Vito Albino Briones

B.S. Mathematics; University of the Philippines, Los Baños; 2018; M.S. Mathematics; University of the Philippines, Diliman; 2019

Dissertation Title "Association Schemes on Triples from Two-transitive

Groups"

Adviser Dr. Jose Maria P. Balmaceda, Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Ouezon

MATERIALS SCIENCE AND ENGINEERING PROGRAM

DOCTOR OF PHILOSOPHY (MATERIALS SCIENCE AND ENGINEERING)

As of Second Semester, AY 2021-2022

Philippe Martin Baguio Tingzon

B.S. Applied Physics; University of the Philippines, Diliman; 2014; M.S. Materials

Science and Engineering; University of the Philippines, Diliman; 2016

Dissertation Title "Study of Residual Stress Experienced by MEMS Tunable

VCSEL Devices with a Bridge-type Design"

Adviser Dr. Armando S. Somintac, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

MARINE SCIENCE INSTITUTE

DOCTOR OF PHILOSOPHY (MARINE SCIENCE)

As of Second Semester, AY 2019-2020

Danica Linda Ortiz Mancenido

B.S. Applied Physics; University of the Philippines, Diliman; 2008; M.S. Physics;

University of the Philippines, Diliman; 2010

Dissertation Title "Assessment of the Prevalence of Submarine Groundwater

Discharge (SGD) in the Lingayen Gulf"

Adviser Dr. Fernando P. Siringan, Research Professor, Marine

Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

INSTITUTE OF BIOLOGY

DOCTOR OF PHILOSOPHY (BIOLOGY)

As of Midyear 2021

Erika Marie Reyes Alvero Bascos

B.S., M.S. Biology; University of the Philippines, Diliman; 2006, 2010

Dissertation Title "Rafflesia consueloae: Taxonomy, Vegetative

Development, Molecular Detection of Host Infection, and

Scent Profiling"

Adviser Dr. Lillian Jennifer V. Rodriguez, Assistant Professor,

Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

CANDIDATES FOR GRADUATION

NATIONAL INSTITUTE OF PHYSICS

MASTER OF SCIENCE (PHYSICS)

As of First Semester, AY 2020-2021

Jonalds Lat Tacneng

B.S. Applied Physics; University of the Philippines, Diliman; 2012

Thesis Title "Reduced Time Formation of Pb-added

(Bi,Pb)₂Sr₂Ca₃Cu₄O₁₂₊₈ Phase via Conventional Solid State

Reaction"

Adviser Dr. Roland V. Sarmago, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

As of Midyear 2021

John Adrian Borillo Baybay

B.S. Physics; University of the Philippines, Diliman; 2019

Master's Thesis "Charged Induced Superradiance from Non-linear Scalar

Fields"

Adviser Dr. Michael Francis Ian G. Vega II, Professor, National

Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Co-Adviser Dr. Reginald Christian S. Bernardo, Assistant Professor,

National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

John De Leon Celestial

B.S. Physics; University of the Philippines, Diliman; 2019

Master's Thesis "Reissner-Nordström Black Holes in Horndeski Theories"

Adviser Dr. Michael Francis Ian G. Vega II, Professor, National Institute of Physics, College of Science, National Science

Complex, University of the Philippines, Diliman, Quezon

City

Co-Adviser Dr. Reginald Christian S. Bernardo, Assistant Professor,

National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman,

Ouezon City

Mykhal Gideoni Lim Mangada

B.S. Applied Physics; University of the Philippines, Los Baños; 2014

Master's Thesis "Image Classification with a Tensor Network-based

Machine Learning Algorithm"

Adviser Dr. Francis Norman C. Paraan, Professor, National Institute

of Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Christopher Gerard Redillas Sevilla

B.S. Applied Physics; University of the Philippines, Diliman; 2019

Master's Thesis "Resonance in Coupled Driven Damped Harmonic

Oscillators with Fluctuating Mass"

Adviser Dr. Jose Perico H. Esguerra, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Apolinario Miguel Isagan Tan

B.S. Applied Physics; University of the Philippines, Diliman; 2017

Master's Thesis "Quantum Fisher Information and Entanglement in an XY

Dimer"

Adviser Dr. Francis Norman C. Paraan, Professor, National Institute

of Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2021-2022

Kristen Joyce Rino Cervantes

B.S. Physics; University of the Philippines, Diliman; 2019

Master's Thesis "Information Flow in Wireless Sensor Networks"

Adviser Dr. Giovanni A. Tapang, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2021-2022

Geronimo Allan Jerome Gabo Acosta

B.S. Physics; University of the Philippines, Diliman; 2017

Adrielle Theresa De Lara Cusi

B.S. Applied Physics; University of the Philippines, Diliman; 2020

Thesis Title "Emergence of Scaled Brownian Motion Due to Elastic

Probe-to-probe Collisions"

Adviser Dr. Caesar A. Saloma, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Klarence Anne Matammu Feri

B.S. Chemistry; University of the Philippines, Diliman; 2018

Thesis Title "Anisotropic Specific Heat of Finite

Lipkin-Meshkov-Glick Spin System"

Adviser Dr. Cristine DLR. Villagonzalo, Professor, National

Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Sean Julian Cruz, Fortuna

B.S. Physics; University of the Philippines, Diliman; 2017

Rian Fritz Delmoro Jalandoni

B.S. Applied Physics; University of the Philippines, Diliman; 2020

Thesis Title "Numerical Analysis of Cancer Growth on a Spherical

Surface and 3D Continuous Space"

Adviser Dr. Johnrob Y. Bantang, Associate Professor, National

Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Christian Loer Teringtering Llemit

B.S. Applied Physics; University of the Philippines, Diliman; 2020

Thesis Title "Structural, Electronic, and Magnetic Properties of

Iron-related Defects in Wurtzite ZnO: an Approach from

First Principles Calculations"

Adviser Dr. Roland V. Sarmago, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Pierce Nathan Tamayo Lopez

B.S. Physics; University of the Philippines, Baguio; 2018

Thesis Title "Investigating Criticality in the Avalanches of a Stochastic

Self-Propagating Star Formation Model"

Adviser Dr. Reinabelle C. Reyes, Associate Professor, National

Institute of Physics, College of Science, National Science

Complex, University of the Philippines, Diliman, Quezon

City

Micholo Lanz, Billones Medrana

B.S. Applied Physics; University of the Philippines, Diliman; 2017

Thesis Title "Entropy and Sentiment-Based Methods for Survey

Analysis"

Adviser Dr. May T. Lim, Professor, National Institute of Physics,

College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

Lemuel John Foronda Sese

B.S. Physics; Mapua University; 2018

Thesis Title "Recurrence and Decoherence Phenomena of a Qubit

Immersed in an N-qubit Environment"

Adviser Dr. Eric A. Galapon, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

BACHELOR OF SCIENCE IN APPLIED PHYSICS

As of Second Semester, 2020-2021

Tristan S. De Guzman

Undergraduate Thesis "Classifying Physics Articles by Their Abstracts with

Recurrent Neural Networks"

Adviser Francis Norman C. Paraan, Ph.D.

As of First Semester, 2021-2022

(Instrumentation Physics)

Averell M. Aquino

Undergraduate Thesis "Simulating the Terahertz (THz) Emission of a Low

Temperature Gallium Arsenide (LT-GaAs) Photoconductive (PCA) Antenna Using the Drude-Lorentz Model of Carrier

Transport"

Co-Adviser Elmer S. Estacio, Ph.D.

Co-Adviser Alexander E. De Los Reyes, Ph.D.

Maria Tisha C. Bagasala

Undergraduate Thesis "Dynamics of Brain Neurons Using a One-Dimensional

Probabilistic Cellular Automata Model"

Adviser Johnrob Y. Bantang, Ph.D.

Giselle S. Reves

Undergraduate Thesis "Effect of Citrate Seed Layers on Morphological and

Optical Properties of Zinc Oxide Microrods Grown Via

Two-Step Hydrothermal Method"

Adviser Roland V. Sarmago, Ph.D.

As of Second Semester, 2021-2022

(Instrumentation Physics)

Leon Sergio C. Dela Cruz Magna Cum Laude

Undergraduate Thesis "Particle Separation in Brownian Transport Through a

Confined Periodic Spherical Channel via Perpendicular

Forcing"

Adviser Ronald S. Banzon, Ph.D.

Renee Calista B. Fernandez Magna Cum Laude

Undergraduate Thesis "Applications of Wavelet-Based Signal Denoising on

Astronomical and Medical Time Series Data"

Adviser Reinabelle C. Reyes, Ph.D.

Elmo Domino R. Jose Cum Laude

Undergraduate Thesis "Evaluating Geospatial Efficiency of Facilities Through

Dirichlet Tessellation Areas and Centroid Proximity

Analysis"

Adviser May T. Lim, Ph.D.

Chae Ann V. Malipol Cum Laude

Undergraduate Thesis "Smartphone-Based Macro Photography for Measuring the

Size Distribution of Sand Grains"

Adviser Maricor N. Soriano, Ph.D.

Beatriz D. Movido Magna Cum Laude

Undergraduate Thesis "Using Network Analysis to Assess and Plan for the

Robustness of the Meralco Power Grid"

Adviser Caesar A. Saloma, Ph.D.

Adriana Marie T. Salvador Cum Laude

Undergraduate Thesis "Stochastic Resetting in Backtracked RNA Polymerases:

A Generalization"

Adviser Jose Perico H. Esguerra, Ph.D.

Jerico Miguel T. Rangel Magna Cum Laude

Undergraduate Thesis "Qiskit Implementation of the 3-Body Ising Model for

Alternating Coupling Constant Chains"

Adviser Cristine DLR. Villagonzalo, Ph.D.

Richelle Jade L. Tuquero Magna Cum Laude

Undergraduate Thesis "Influence of Harmonic Confinement and Contact

Interaction in an Atom-Cavity System"

Adviser Jayson G. Cosme, Ph.D.

BACHELOR OF SCIENCE IN PHYSICS

As of Midyear, 2021

Gabrielle Melissa D. Alhambra

Undergraduate Thesis "Boomerang Photon Orbits Around Spherically Symmetric

Black Holes"

Adviser Michael Francis Ian G. Vega II, Ph.D.

As of First Semester, 2021-2022

Stephanie Anne M. Vergara

Undergraduate Thesis "Investigating the Effects on the Intensity of Varying

Distances of a Two- Mirror Segmented Telescope System"

Adviser Giovanni A. Tapang, Ph.D.

As of Second Semester, 2021-2022

Ian Angelo T. Aragoza Magna Cum Laude

Undergraduate Thesis "Mapping Poverty in the Philippines Using Public

Geospatial Data Sets"

Adviser Reinabelle C. Reyes Ph.D.

Julliana Maxine I. Ching Cum Laude

Undergraduate Thesis "Multi-Frequency Fringe Projection Profilometry: Virtual

and Real-World Three-Dimensional Imaging"

Adviser Ritz Ann P. Aguilar, Ph.D.

Earl John B. Crusina Summa Cum Laude

Undergraduate Thesis "Scale-Free Network in 2D Polar Coordinate System

Generated via Random Geometric Network Algorithm

Modified by Task Fragmentation Model"

Adviser Johnrob Y. Bantang, Ph.D.

Sean Patrick G. Dela Cruz Summa Cum Laude

Undergraduate Thesis "Power Law Distributed Resetting Times for the Ising

Model"

Adviser Jose Perico H. Esguerra, Ph.D.

Olyn D. Desabelle Cum Laude

Undergraduate Thesis "Ride-Hailing Driver Behavior in Single-Lane and

Multi-Lane Traffic"

Adviser May T. Lim, Ph.D.

Gene Michael P. Herman Cum Laude

Undergraduate Thesis "Quantum Carnot Heat Engine with an Effective External

Electric Field Perturbation"

Adviser Cristine DLR. Villagonzalo, Dr.rer.nat.

Marc Cyrel M. Magnawa Summa Cum Laude

Undergraduate Thesis "Random Walks with Undoing" Adviser Jose Perico H. Esguerra, Ph.D.

Joaquin Nicholas C. Mercado Magna Cum Laude

Undergraduate Thesis "Scalar Field of a Static Charge in the Exterior of a

Relativistic Anisotropic Star"

Adviser Michael Francis Ian G. Vega II, Ph.D.

Daniel Anthony L. Monge

Undergraduate Thesis "Identities from the Finite Parts of Divergent Mellin-Type

Integrals"

Adviser Eric A. Galapon, Ph.D.

John Rommel V. Oidem Magna Cum Laude

Undergraduate Thesis "Charged Particle Dynamics Around a Uniformly

Magnetized Newtonian Center"

Adviser Michael Francis Ian G. Vega II, Ph.D.

Martin John V. Recentes Magna Cum Laude

Undergraduate Thesis "Network Approach for Determining the Impact of

COVID-19 on Healthcare System Dynamics of Tagaytay

City"

Adviser Caesar A. Saloma, Ph.D.

Sean Ivan S. Roxas Cum Laude

Undergraduate Thesis "Configurational States of a Quasi-2D Heap of Conducting

Disks Using Low-Cost Experimental Setup and Image

Processing"

Adviser Johnrob Y. Bantang, Ph.D.

Carl Terence S. Valdellon Summa Cum Laude

Undergraduate Thesis "Nature-Inspired Optimization of Power Allocation among

Light-Emitting Diodes for Uniform Illumination"

Adviser Giovanni A. Tapang, Ph.D.

Jesus Miguel A. Yulo II Summa Cum Laude

Undergraduate Thesis "Dynamics and Strange Attractors of Stellar Pulsation in

One-Zone Models of Long-Period Variable Stars"

Adviser Michael Francis Ian G. Vega II, Ph.D.

NATIONAL INSTITUTE OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY

MASTER OF SCIENCE (MOLECULAR BIOLOGY AND BIOTECHNOLOGY)

As of Midyear 2021

Shela Marie Llenaresas Algodon

B.S. Molecular Biology and Biotechnology; University of the Philippines, Diliman;

2015

Master's Thesis "Characterization of the Effects of SNPS in the MEG3

IncRNA on its Tumor Suppressive Function"

Adviser Dr. Reynaldo L. Garcia, Professor, National Institute of

Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines,

Diliman, Quezon City

Gwynne Micah Salanga Ritua

B.S. Molecular Biology and Biotechnology; University of the Philippines, Diliman;

2017

Master's Thesis "Investigation of the Type I-F CRISPR-Cas Systems in

Vibrio spp.: Variations on a Theme."

Adviser Dr. Ron Leonard Dy, Assistant Professor, National Institute

of Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

Aileen Geobee Go Uv

B.S. Medical Technology; University of Santo Tomas; 2010

Master's Thesis "Investigations on the Effect of KRAS Mutational Status

on Differential Sorting of RNA Cargo into Exosomes"

Adviser Dr. Reynaldo L. Garcia, Professor, National Institute of

Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines,

Diliman, Quezon City

As of First Semester, AY 2021-2022

J-Ann Marie Tiamson Lego

B.S. Molecular Biology and Biotechnology; University of the Philippines, Diliman;

2017

Master's Thesis "Investigations on the MicroRNA-mediated Regulation of

the Long Non-coding RNA HULC in Colorectal Cancer

Cells"

Adviser Dr. Reynaldo L. Garcia, Professor, National Institute of

Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines,

Diliman, Quezon City

Owen Tito Orbase Mallapre

B.S. Molecular Biology and Biotechnology; University of the Philippines, Diliman; 2018

Thesis Title "Computational Analysis of the Effects of Hsp40

Mutations on Hsp70 Function"

Adviser Dr. Neil Andrew D. Bascos, Associate Professor, National

Institute of Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

Weand Serencio Ybañez

B.S. Molecular Biology and Biotechnology; University of the Philippines, Diliman; 2019

Master's Thesis "Probing the Functional Role of Kruppel-like Factor 9

(KLF9) in the Link Between Circadian Distruption and

Breast Cancer"

Adviser Dr. Pia D. Bagamasbad, Professor, National Institute of

Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines,

Diliman, Quezon City

As of Second Semester, AY 2021-2022

Joshua Miguel Cristobal Danac

B.S. Molecular Biology and Biotechnology; University of the Philippines, Diliman;

2019

Thesis Title "Functional Characterization of the Novel, Non-hotspot

BRAF S720L Mutation Identified in Filipino Young-onset

Colorectal Cancer Patients"

Adviser Dr. Reynaldo L. Garcia, Professor, National Institute of

Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines,

Diliman, Quezon City

Charles John Talip Uv

B.S. Life Sciences; Ateneo de Manila University; 2015

Thesis Title "Functional characterization of the novel PIK3CA mutants

N114S and Codon 111 deletion identified from Filipino

colorectal cancer patients"

Adviser Dr. Reynaldo L. Garcia, Professor, National Institute of

Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines,

Diliman, Quezon City

BACHELOR OF SCIENCE IN MOLECULAR

BIOLOGY AND BIOTECHNOLOGY

As of Second Semester, 2020-2021

Hans Emmanuel H. Monroy

Undergraduate Thesis "DNA Barcoding and Phylogenetic Tree Analysis of 6

Freshwater Green algae samples using rbcL and tufA Gene

loci"

Adviser Wilberto D. Monotilla, Ph.D. Co-Adviser Libertine Rose Sanchez, Ph.D.

As of Second Semester, 2021-2022

Abigail Mary Claire F. Ablang Cum Laude

Undergraduate Thesis "Preliminary Investigations on miRSNPs in the PIK3CA"

3'UTR of Filipino Young-Onset Colorectal Cancer

Patients"

Adviser Reynaldo L. Garcia, Ph.D., M.Phil. (cantab)

Sophia Marie A. Abulencia Magna Cum Laude

Undergraduate Thesis "In silico Analysis of the T-cell Immunogenicity of the

Nucleocapsid Protein in SARS-CoV-2 Variants"

Adviser Denise Mirano Bascos Ph D

Jasmine Abigail S. Acla Cum Laude

Undergraduate Thesis "Computational Investigations of SARS-CoV-2 Spike

Protein Interactions with Integrin αvβ8"

Adviser Neil Andrew D. Bascos, Ph.D.

John Rafael F. Ambag Summa Cum Laude

Undergraduate Thesis "Preliminary Investigations on the Effects of miRSNPs

Found in the *PTEN 3* '-UTR of Filipino Young-Onset

Colorectal Cancer Patients"

Adviser Reynaldo L. Garcia, Ph.D., M.Phil.(cantab)

Aleq Adrianne R. Andresan Magna Cum Laude

Undergraduate Thesis "Tracking the Emergence and Evolution of SARS-CoV-2 in

Region X and Region XIII"

Adviser Cynthia Palmes-Saloma, Ph.D.

Caitlin Bridgette G. Castro

Undergraduate Thesis "In Silico Identification and Analysis of NBS-LRR genes

from Abaca (Musa textilis Née var. Tangongon)"

Adviser Vermando M. Aquino, Ph.D.

Andrei Phillip L. David Summa Cum Laude

Undergraduate Thesis "Functional Characterization of the Novel RRAS R78W

and E63D Mutants Identified in Filipino Young-Onset

Colorectal Cancer Patients"

Adviser Reynaldo L. Garcia, Ph.D., M.Phil. (cantab)

Christian Jayrold S. Dela Cruz Magna Cum Laude

Undergraduate Thesis "Detection of Virulence and Avirulence- Related Genes in

Ralstonia solanacearum 10154 Isolate"

Adviser Ma. Anita M. Bautista, Ph.D.

Marco Angelo C. Dildig Magna Cum Laude

Undergraduate Thesis "De novo Genome Assembly of a Streptomyces Isolate

from the Philippines and Genome Mining of Biosynthetic

Gene Clusters for Natural Product Discovery"

Adviser Ron Leonard V. Dy, Ph.D.

Lyoneil James A. Dimaapi Magna Cum Laude

Undergraduate Thesis "In silico Screening for Novel Lead-Like Compounds as

Potential Androgen Receptor Antagonists"

Adviser Pia D. Bagamasbad, Ph.D.

Albert Neil G. Dulay Magna Cum Laude

Undergraduate Thesis "Computational Investigations of SARS-CoV-2 Spike

Protein Interactions with Integrin $\alpha v \beta 6$ "

Adviser Neil Andrew D. Bascos, Ph.D.

Aaron James C. Feliciano Cum Laude

Undergraduate Thesis "16S rRNA-Based Metagenomic Analysis of Microbial

Communities in the Guts of the Diamondback moth, *Plutella xylostella* L., and the Wood-Feeding Termite,

Microcerotermes sp."

Adviser Ma. Anita M. Bautista, Ph.D.

Lance Harvey L. Go Magna Cum Laude

Undergraduate Thesis "Functional Characterization of the Novel

E-Cigarette-Upregulated IncRNA AC010336.4 (VALT1)"

Adviser Reynaldo L. Garcia, Ph.D., M.Phil. (cantab)

Rachael Mikaela R. Lao Magna Cum Laude

Undergraduate Thesis "In silico Modeling and Docking of Putative TIR-Binding

Proteins Hen1 and p115 in the Tardigrade *Mesobiotus*

philippinicus"

Adviser Denise Mirano Bascos, Ph.D.

Brian Cedric N. Licayan Cum Laude

Undergraduate Thesis "Cell-Free Synthesis of Bacteriocin from Chromobacterium

sp."

Adviser Jose Enrico H. Lazaro, Ph.D.

Regine Marie S. Mallorca Cum Laude

Undergraduate Thesis "Stabilization of the *Plasmodium falciparum* Merozoite

Surface Protein 1 Block 2 MAD20 Allelic Variant"

Adviser Denise Mirano Bascos, Ph.D.

Leila Marie A. Mancera Cum Laude

Undergraduate Thesis "Comparative Genome Analysis of Vibrio vulnificus

Isolates from the Philippine Shrimp Pathogenomics

Program"

Adviser Cynthia Palmes-Saloma, Ph.D.

Alessandria Maeve M. Ocampo Magna Cum Laude

Undergraduate Thesis "Deciphering the Role of *ERRFI1* in the Glucocorticoid

Therapy Paradox in Breast Cancer"

Adviser Pia D. Bagamasbad, Ph.D.

Rhaena Ellyse A. Pablo Cum Laude

Undergraduate Thesis "Comparative Genomics Analysis of Evolution of Betalain

Pigmentation in the Plant Order Caryophyllales"

Adviser Jose Ramon G. Planta, Ph.D.

Beatrice Gabrielle T. Panlaqui Cum Laude

Undergraduate Thesis "Protein Modeling and in silico Characterization of Two

Putative TIR-Binding Proteins in the Limnoterrestrial

Tardigrade Mesobiotus philippinicus"

Adviser Denise Mirano-Bascos, Ph.D.

Irene S. Rivera Cum Laude

Undergraduate Thesis "An Investigation on Prophages and Lytic Phages of

Philippine Ralstonia solanacearum Strains"

Adviser Ron Leonard V. Dy, Ph.D.

Andrew Benedict P. Rodriguez Magna Cum Laude

Undergraduate Thesis "A Meta-analysis and Validation of Acute and Chronic

Stress-Regulated Transcripts in Rodent Hippocampus"

Adviser Pia D. Bagamasbad, Ph.D.

Aira Gabrielle C. So

Undergraduate Thesis "Identification and Analysis of a Putative Hybrid

iPKS/NRPS Biosynthetic Gene Cluster in Lysinibacillus sp.

M3 Using a Genome Mining Approach"

Adviser Jose Enrico H. Lazaro, Ph.D.

INSTITUTE OF MATHEMATICS

<u>MASTER OF SCIENCE</u> (APPLIED MATHEMATICS - INSTRUMENTATION)

As of Midyear 2021

Yancee Hernandez. Olave

B.S. Applied Mathematics; University of the Philippines, Los Baños; 2015

Master's Thesis "Optimal Control of a Chikungunya Model in the

Philippine Setting"

Adviser Dr. Aurelio A. de los Reyes V, Associate Professor,

Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman,

Ouezon City

Co-Adviser Dr. Victoria May P. Mendoza, Assistant Professor, Institute

of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Vanessa Mae Cea Romero

B.S. Applied Mathematics; University of the Philippines, Los Baños; 2016

Master's Thesis "Modelling Dengue Transmission with Time Delays"

Adviser Dr. Aurelio A. de los Reyes V, Associate Professor,

Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman,

Ouezon City

As of First Semester, AY 2021-2022

Deza Alipat Amistas

B.S. Applied Mathematics; University of the Philippines, Visayas; 2019

Master's Thesis "Incidence Independent and Weakly Reversible

Decompositions of Chemical Reaction Networks"

Adviser Dr. Ralph John L. de la Cruz, Associate Professor, Institute

of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

Gertrude Thea Marie Santiago Reyes

B.S. Mathematics; University of the Philippines, Baguio; 2016

Master's Thesis "On the Minimum Capital Requirement of a Philippine

Bank Using Advanced Measurement Approach"

Adviser Dr. Jose Maria L. Escaner IV, Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

As of Second Semester, AY 2021-2022

Erika Antonette Tan Enriquez

B.S. Mathematics; University of the Philippines, Diliman; 2019

Thesis Title "Philippine Eagle Optimization Algorithm"

Adviser Dr. Arrianne Crystal T. Velasco, Assistant Professor,

Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

Jemar Ebalin Laag

B.S. Mathematics; University of the Philippines, Los Baños; 2016

Thesis Title "Matrix Representation of Martingale Measures with

Quantized Marginals"

Adviser Dr. Daryl Allen B. Saddi, Assistant Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Clyd Marvin Soliveres Tito

B.S. Mathematics; De La Salle University; 2012

Thesis Title "Estimation of Credit Rating Migration through Transition

Matrices"

Co-Adviser Dr. Jose Maria L. Escaner IV, Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Co-Adviser Dr. Polly W. Sy, Professor Emeritus, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Ouezon

MASTER OF SCIENCE (MATHEMATICS)

As of Midyear 2021

Renato Lorenzo Antonio Letaba Añel III

B.S. Mathematics; University of the Philippines, Diliman;

Master's Thesis "On Some Families of Elliptic Curves Associated with

Polygonal Numbers"

Adviser Dr. Jerome T. Dimabayao, Associate Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Michael Christian Matias Baysauli

B.S. Mathematics; University of the Philippines, Diliman; 2016 Master's Thesis "On Negacyclic Codes Over Z₄"

Adviser Dr. Lilibeth D. Valdez, Associate Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

As of First Semester, AY 2021-2022

Jehan Ramos Abbas

B.S. Mathematics; Mindanao State University; 2017

Master's Thesis "Uncertainty Principle for Compact Self-Adjoint

Operators"

Adviser Dr. Louie John D. Vallejo, Assistant Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Clint Harry Gemoto Angeles

B.S. Mathematics; University of the Philippines, Diliman; 2012

Master's Thesis " Σ -Unitary Groups and Σ -Unitary Lie Algebras over the

Integers"

Adviser Dr. Jose Maria P. Balmaceda, Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Ouezon

City

Co-Adviser Dr. Clarisson Rizzie P. Canlubo, Assistant Professor,

Institute of Mathematical Sciences and Physics, College of Arts and Sciences, University of the Philippines Los Baños

College, Laguna

Jomarson Atacador Florendo

B.S. Mathematics; University of the Philippines, Diliman; 2019

Master's Thesis "Kleptography on the NTRU Public Key Cryptosystem"

Adviser Dr. Julius M. Basilla, Associate Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Marc Agron Flores Julian

B.S. Applied Physics; University of the Philippines, Manila; 2017

Master's Thesis "Color Confinement and Liang's Potential Energy Function

on a GUT over SU(5)"

Co-Adviser Dr. Dennis T. Levson, Assistant Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Co-Adviser Dr. Clarisson Rizzie P. Canlubo, Assistant Professor,

Institute of Mathematical Sciences and Physics, College of Arts and Sciences, University of the Philippines Los Baños

College, Laguna

Sofia Anne Requidan Pineda

B.S. Mathematics; University of the Philippines, Diliman; 2019
Master's Thesis "Kid-RSA in Algebraic Number Fields"

Adviser Dr. Julius M. Basilla, Associate Professor, Institute of

Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Hazel Joy Gonzales Shi

B.S. Management Engineering; Ateneo de Manila University; 2013

Master's Thesis "The Parity of Andrews' (4k,k)-Singular Overpartitions"

Adviser Dr. Victor Manuel R Aricheta. Assistant Profess

Dr. Victor Manuel R. Aricheta, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

Raymond Louis Sariola Tañedo

B.S. Applied Mathematics; Polytechnic University of the Philippines; 2019

Master's Thesis "The Products of Involutions in a Matrix Centralizer"

Adviser Dr. Ralph John L. de la Cruz, Associate Professor, Institute of Mathematics, College of Science, National Science

Complex, University of the Philippines, Diliman, Quezon

As of Second Semester, AY 2021-2022

John Mel Tapnio Dacaymat

B.S. Mathematics; University of the Philippines, Diliman; 2019

Thesis Title "Diameter of Some Families of Quotient-complete,

Arc-transitive Cayley Graphs"

Co-Adviser Dr. Maria Carmen V. Amarra, Associate Professor, Institute

of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Co-Adviser Dr. Joseph Ray Clarence G. Damasco, Assistant Professor,

Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

MASTER OF ARTS (MATHEMATICS)

As of First Semester, AY 2021-2022

Jose Amante III Bongao Buenafe

B.S. Education in Mathematics; University of the Philippines, Diliman; 2010

Rafael Amalia Duarte

B.S. Mathematics; Polytechnic University of the Philippines; 2016

As of Second Semester, AY 2021-2022

Edward Rabino Apatan

B.S. Mathematics; Philippine Normal University; 2012

Art Nico Benedict Dela Cruz Caguicla

B.S. Mining Engineering; University of the Philippines, Diliman; 2016

PROFESSIONAL MASTERS IN APPLIED MATHEMATICS

As of Second Semester, AY 2021-2022

Pia Marie Crisostomo Salvador

B.S. Business Administration; University of the Philippines, Diliman; 2015

BACHELOR OF SCIENCE IN MATHEMATICS

As of Second Semester, 2020-2021

Marichelle Basilio

Undergraduate Thesis "Principle of Restricted Choice in Bridge Play"

Adviser Fredegusto Guido P. David, Ph.D.

John Alfred V. Paragas

Undergraduate Thesis "On the Whale Optimization Algorithm"

Adviser Arrianne Crystal T. Velasco, Ph.D.

As of First Semester, 2021-2022

Natasha Dominique R. Garcia

Undergraduate Thesis "Premium Calculation for a Pension-and-Term Insurance"

Adviser Jose Maria L. Escaner IV, Ph.D.

Saeeda Fathma G. Isidro

Undergraduate Thesis "Dimension of an Algebraic Set as Defined by the Hilbert

Polynomial of its Vanishing Ideal"

Adviser Jose Maria P. Balmaceda, Ph.D.

James Wolfgang B. Llanza

Undergraduate Thesis "On the Well-Posedness of a Nonlinear Elliptic Boundary

Value Problem with Mixed Boundary Conditions"

Adviser Bituin C. Cabarrubias, Ph.D.

Marielle Alexandra C. Torrefiel

Undergraduate Thesis "Time Series Analysis of Philippine Population"

Adviser Daryl Allen B. Saddi, Ph.D.

As of Second Semester, 2021-2022

Christopher M. Billedo

Undergraduate Thesis "Convexity of Cheby-shev Sets in Hilbert Spaces"

Adviser Louie John D. Vallejo, Ph.D.

Peter John M. Burgos Summa Cum Laude

Undergraduate Thesis "On Umbral Methods of Integration"

Co-Adviser Polly W. Sy, Ph.D., D.Sc. Co-Adviser Olive R. Cawiding, M.Sc.

Ivan Rev A. Carvajal Magna Cum Laude

Undergraduate Thesis "On the Existence, Uniqueness, and Stability of the Weak

Solutions of Some Classes of Boundary Value Problems"

Adviser Bituin C. Cabarrubias, Ph.D.

Kyrho M. Corum Cum Laude

Undergraduate Thesis "Optimization of Storm Surge Barrier Closure Applied to

the Venice Lagoon"

Adviser Arrianne Crystal T. Velasco, Ph.D.

Madelyn Esther C. Cruz Summa Cum Laude

Undergraduate Thesis "Mathematical Analysis Used in EEGs and Other

Extensions"

Adviser Carlene P.C. Pilar-Arceo, Ph.D.

Margaret Esther C. Cruz Summa Cum Laude

Undergraduate Thesis "Application of the Coloring-Book Approach in Finding

the Coordination Sequences for Some Uniform Tilings"

Adviser Manuel Joseph C. Loquias, Dr. math.

Rhoda Mae T. Cuevas Cum Laude

Undergraduate Thesis "Using Hamacher Operator in Fuzzy Set Theory for

Insurance Pricing and Reserves"

Adviser Jose Maria L. Escaner IV, Ph.D.

John Timothy U. Daclag Cum Laude

Undergraduate Thesis "Where Do Broken Hearts Go: Modelling Stress

Cardiomyopathy"

Adviser Jose Maria L. Escaner IV, Ph.D.

Jericho R. Galura Magna Cum Laude

Undergraduate Thesis "European Rainbow Option Pricing Using the Expected

Rates of Return on Two Assets"

Adviser Jose Maria L. Escaner IV, Ph.D.

Jessa P. Gemperoso Summa Cum Laude

Undergraduate Thesis "On the Calculation of Aggregate Claims Distribution

Function Using Panjer Recursion"

Adviser Lu Kevin S. Ong, Ph.D.

Darlan Lloyd A. Grageda III Cum Laude

Undergraduate Thesis "Autoregressive Integrated Moving Average Models Versus

A Probabilistic Approach on Modelling the Smooth Love

Potion Cryptocurrency Price"

Adviser Jasmin-Mae S. Luy, Ph.D.

Veronica Hillary R. Guevara Magna Cum Laude

Undergraduate Thesis "On the *Un* and *L2* Quantizations of Some Probability

Measures"

Adviser Daryl Allen B. Saddi, Ph.D.

Queennie Mae B. Lazo Magna Cum Laude

Undergraduate Thesis "On the Determination of the Common Set of Weights in a

Preferential Voting System"

Adviser Ramon Iñigo D. Marfil, Ph.D.

Cedric John L. Ligutan Summa Cum Laude

Undergraduate Thesis "Construction of Closed Twisted Curves in \mathbb{R}^n "

Adviser Dennis T. Leyson, Ph.D.

Lynette C. Manlapas Magna Cum Laude

Undergraduate Thesis "Constructing Euclidean and Hermitian LCD Codes"

Adviser Lucky Galvez, Ph.D.

Troy Vinzenz A. Manuel Magna Cum Laude

Undergraduate Thesis "On the Construction of Linear Complementary Dual

(LCD) Codes over $\mathbb{F}q + v\mathbb{F}q + v^2\mathbb{F}q + \cdots + v^{ml}\mathbb{F}q$ "

Adviser Lucky Galvez, Ph.D.

Ricci Mae D. Margallo

Undergraduate Thesis
Adviser

"Ritz Values of Weighted Shift Matrices"
Paul Reine Kennett L. Dela Rosa, Ph.D.

Gwyneth M. Martinez Magna Cum Laude

Undergraduate Thesis "Matrix Representation of Martingale Measures Derived

from the Quantization of Uniformly and U-Quadratically

Distributed Marginals"

Adviser Daryl Allen B. Saddi, Ph.D.

Dwight Anthony B. Palma Magna Cum Laude

Undergraduate Thesis "Mathematical Modeling and Optimal Control of

HIV/AIDS in the Philippines"

Co-Adviser Arrianne Crystal Velasco, Ph.D. Co-Adviser Thomas Herald Vergara, M.Sc.

Patrisha C. Paris Magna Cum Laude

Undergraduate Thesis "Forecasting Philippine Mortality Rates Using the

Lee-Carter Model"

Adviser Jose Maria L. Escaner IV, Ph.D.

Joshua Aaron S. Punzalan Cum Laude

Undergraduate Thesis "On the Chromatic Number of the Zero Divisor Graph Γ

 $(\mathbb{Z}_m \times \mathbb{Z}_n)$ "

Adviser Rovin B. Santos, Ph.D.

Francis Benedict R. Tamio

Undergraduate Thesis "Spoof Odd Perfect Numbers and Dittmer's Algorithm"

Adviser Victor Manuel R. Aricheta, Ph.D.

Florence Carl A. Tilano Magna Cum Laude

Undergraduate Thesis "The Fama and French Five Factor Model Applied to

Philippine Common Stocks from 2013 to 2020"

Adviser Jasmin-Mae S. Luy, Ph.D.

Christine Ann L. Tongol Cum Laude

Undergraduate Thesis "Mathematical modeling of COVID-19 Dynamics with

Information-Dependent Vaccination in the Philippines"

Co-Adviser Olive R. Cawiding, M.Sc. Co-Adviser Rey Audie S. Escosio, M.Sc.

Vince Jan F. Torres Magna Cum Laude

Undergraduate Thesis "The Minimum Number of Monominos in a Deficient

Tiling of a Class of Rectangles with T-tetrominos"

Adviser Louie John D. Vallejo, Ph.D.

Shawn Christian P. Tuason Magna Cum Laude

Undergraduate Thesis "Prime-Free Regions in Imaginary Quadratic Fields of

Class Number One"

Adviser Victor Manuel R. Aricheta, Ph.D.

Raina Lee Y. Visitacion Summa Cum Laude

Undergraduate Thesis "Optimal Control Strategies Applied to a Mathematical

Model for the Epidemiology of Diabetes"

Co-Adviser Arrianne Crystal Velasco, Ph.D. Co-Adviser Thomas Herald Vergara, M.Sc.

Steven John H. Wang Summa Cum Laude

Undergraduate Thesis "On the Curvature of Torus Curves and Their Projections"

Adviser Dennis T. Leyson, Ph.D.

Jes Indira L. Zafe

"Using the Yager Operator in Fuzzy Set Theory for Insurance Pricing" Undergraduate Thesis

Adviser Jose Maria L. Escaner IV, Ph.D.

MATERIALS SCIENCE AND ENGINEERING PROGRAM

MASTER OF SCIENCE (MATERIALS SCIENCE AND ENGINEERING)

As of Midyear 2021

Mylenne San Carlos Manrique

B.S. Applied Physics; University of the Philippines, Diliman; 2016

Master's Thesis "Fluence-dependent Raman Scattering of

Vertically-aligned Silicon Nanowire Arrays"

Adviser Dr. Armando S. Somintac, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Kim Marie Degayo Sisican

B.S. Chemistry; University of the Philippines, Diliman; 2016

Master's Thesis "Coordination Modulated Synthesis and Surface

Functionalization of MIL-88B(Fe) Nanoparticles"

Adviser Dr. Marlon T. Conato, Professor, Institute of Chemistry,

College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2021-2022

Mia Angela Nuneza Judicpa

B.S. Chemistry; University of the Philippines, Visayas; 2015

Thesis Title "Polythiophene-modified Titanium Dioxide (TiO₂)

Nanotubes for the Photoelectrochemical Detection of

Organic Pollutants"

Adviser Dr. Allan Christopher C. Yago, Associate Professor,

Institute of Chemistry, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

Enrico Daniel Recto Legaspi

B.S. Chemistry; University of the Philippines, Diliman; 2019

Thesis Title "One-pot Synthesis of Copper(I) Oxide-Gold

Nanocomposites for Use as Surface-Enhanced Raman

Spectroscopy (SERS) Substrates"

Adviser Dr. Michelle D. Regulacio, Associate Professor, Institute of

Chemistry, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

MARINE SCIENCE INSTITUTE

MASTER OF SCIENCE (MARINE SCIENCE)

As of First Semester, AY 2021-2022

Raffi Rakim Isah

B.S. Chemistry; University of the Philippines, Diliman; 2015

Master's Thesis "Carbonate Chemistry Dynamics on the Bolinao Reef Flat" Adviser Dr. Maria Lourdes San Diego-McGlone, Professor, Marine

Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Albebson Landicho Lim

B.S. Biology; University of the Philippines, Los Baños; 2014

Master's Thesis "Isolation and Characterization of a Putative Novel Species

of Winogradskyella from a turrid, Turris babylonia"

Adviser Dr. Cecilia G. Conaco, Professor, Marine Science Institute,

College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Gisela P. Concepcion, Professor Emeritus, Marine

Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

As of Second Semester, AY 2021-2022

Patrick Arnigo Cordillo

B.S. Biology; Polytechnic University of the Philippines; 2012

Thesis Title "Species Identification and Population Structure of

Sardines along the Northern Coast of Mindanao using

Body Shape Geometric Morphometrics"

Adviser Dr. Ma. Josefa R. Pante, Research Professor, Marine

Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Aiko (Love) Bacunawa Del Rosario

B.S. Applied Physics; University of the Philippines, Diliman; 2015

Thesis Title "Spatiotemporal Variations of Eddies around the

Philippines"

Adviser Dr. Cesar L. Villanoy, Professor, Marine Science Institute,

College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

Charmaine Bantog Mendoza

B.S. Biology; Polytechnic University of the Philippines; 2012

Thesis Title "Isolation and Characterization of Bioactive Conopeptides

from Conus tessulatus"

Adviser Dr. Lilibeth A. Salvador-Reyes, Professor, Marine Science

Institute, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

PROFESSIONAL MASTERS IN TROPICAL MARINE ECOSYSTEMS MANAGEMENT

As of Second Trimester, AY 2021-2022

Maria Ella Hisarza Baria Aquino

B.S. Biology; University of the Philippines, Los Baños; 2004

Archie Faburada Espinosa

BS in Aquatic Biology; Western Philippines University; 2009

Luzviminda Rosario,

A.B. English; Isabela State University, Echague Campus; 2007

Josephine Uy Sta Maria

BS in Biology; Cagayan State University; 2008

NATIONAL INSTITUTE OF GEOLOGICAL SCIENCES

MASTER OF SCIENCE (GEOLOGY)

As of Midyear 2021

Ma. Isabella Gaite Hermo

B.S. Geology; University of the Philippines, Diliman; 2015

Master's Thesis "Mineralization of the quartz-fragment-rich-breccia (QBX)

from the Didipio Breccia Complex, Nueva Vizcaya,

Philippines"

Adviser Dr. Maria Ines Rosana D. Balangue-Tarriela, Associate

Professor, National Institute of Geological Sciences, College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

As of First Semester, AY 2021-2022

Sheinna May Dacalos Claro

B.S. Geology; University of the Philippines, Diliman; 2016

Thesis Title "Characterization of Coastal Sediments in Relation to

Potential Washover Deposits from Extreme Wave Events in

Zamboanga Del Sur, Philippines"

Adviser Dr. Noelynna T. Ramos, Professor, National Institute of

Geological Sciences, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Co-Adviser Dr. Allan Gil S. Fernando, Professor, National Institute of

Geological Sciences, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

As of Second Semester, AY 2021-2022

Ma. Criselda Batislaong Baldago

B.S. Geology; University of the Philippines, Diliman; 2016

Thesis Title "Temporal Evolution of Diffuse CO₂ Degassing of Taal

Volcano in Relation to Large Tectonic Earthquakes"

Adviser Dr. Alfredo Mahar Francisco A. Lagmay, Professor,

National Institute of Geological Sciences, College of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

Co-Adviser Dr. Carlo A. Arcilla, Professor, National Institute of

Geological Sciences, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Jesley Mei Abiño Dycoco

B.S. Geology; University of the Philippines, Diliman; 2018

Thesis Title "Melt Generation in the Oceanic Lithosphere: Implications

from the Crustal Section and Associated Mafic Intrusions

of the Palawan Ophiolite"

Adviser Dr. Betchaida D. Payot, Professor, National Institute of

Geological Sciences, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Regina Martha Gabest Lumongsod

B.S. Geology; University of the Philippines, Diliman; 2017

Thesis Title "Geologic and Geomorphic Controls on Sinkhole

Characteristics in Cebu City, Philippines"

Adviser Dr. Noelynna T. Ramos, Professor, National Institute of

Geological Sciences, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Bryan Jimenez Marfito

B.S. Geology; University of the Philippines, Diliman; 2014

Thesis Title "Tectonic Geomorphology of the Philippine Fault in

Surigao Strait"

Adviser Dr. Mario A. Aurelio, Professor, National Institute of

Geological Sciences, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

BACHELOR OF SCIENCE IN GEOLOGY

As of Second Semester, 2020-2021

Stephanie Faith I. Peñarubia

As of Midyear, 2021

Loeb Delfonz D. Daya

Philip J. Kawi

Carlo Gerrico C. Maximo

Miguel Joven E. Villanueva

Magna Cum Laude

As of First Semester, 2021-2022

Andreo Luiz V. Agbayani Berlyn D. Eleazar

As of Second Semester, 2021-2022

Mikhaila Megan T. Fernando

Maarja C. Mallari Rev Dexter S. Nayo

Frances Myrvi D. Almoradie Cum Laude

Undergraduate Thesis "Determining the Carbon Dioxide Dynamics of Laguna de

Bay Through its pCO₂ Levels"

Adviser Carlo A. Arcilla, Ph.D.

Jema Beatrix B. Antonio

Undergraduate Thesis "Crystal Size Distribution of *Plagioclase Phenocrysts* of

the 1969 Mt. Tabaro Lava Flow: Quantification of Crystallization History Through Textural Parameters"

Adviser Maria Ines Rosana Balangue-Tarriela, Ph.D.

John Kenneth B. Badillo Cum Laude

Undergraduate Thesis "Inventory of the 13-15 September 2018 Typhoon

Mangkhut-Induced Landslides in Northern Itogon,

Benguet, Philippines"

Adviser Sandra G. Catane, Ph.D.

Christian John C. Bañaria

Undergraduate Thesis "Geomorphological Classification of Cinder Cones of the

Ragang Volcanic Field, Central Mindanao, Philippines"

Adviser Sandra G. Catane, Ph.D.

Jim Paulo M. Bautista Cum Laude

Undergraduate Thesis "Characterizing the Fluvial Geomorphology and Channel

Migration Patterns of the Lower Abra River, Philippines

Through Remote Sensing and GIS Analyses"

Adviser Noelynna T. Ramos, D.Sc.

Rachelle B. Belmoro Cum Laude

Undergraduate Thesis "Geochemistry of Rare Earth Elements in Laterites Derived

from Ultramafic Rocks of the Zambales Ophiolite

Complex"

Adviser Carlo A. Arcilla, Ph.D.

Hannah Yvette P. Bumanglag Magna Cum Laude

Undergraduate Thesis "Geochemical Variability of the Volcanic Rocks in the

Batanes Group of Islands: Implications for the

Tectonomagmatic Evolution of the Babuyan Segment,

Luzon Arc"

Adviser Betchaida D. Payot, Ph.D.

Danella Trina S. Callosa Cum Laude

Undergraduate Thesis "Ore Mineralogy and Mineral Chemistry of the

East-West-Trending Masarita Vein in the Masara Gold

District, Eastern Mindanao, Philippines"

Adviser Jillian Aira Gabo-Ratio, D.Eng

Editha Rose B. Chavez Cum Laude

Undergraduate Thesis "Constraining Petrological Signatures of an Arc Magma:

Clues from Clinopyroxenes of Mt. Pinatubo Xenoliths"

Adviser Betchaida D. Payot, Ph.D.

Jester F. Cleope Cum Laude

Undergraduate Thesis "Petrographic and Paleontological Examination of

Limestones in Tanay and Baras, Rizal Province"

Adviser Allan Gil S. Fernando, Ph.D.

Coleen Ann M. Crisostomo Cum Laude

Undergraduate Thesis "Mineralogical and Geochemical Characterization of Black

Sands in La Union, Philippines"

Adviser Carlo A. Arcilla, Ph.D.

Dann Ysrael D. Crobalde Cum Laude

Undergraduate Thesis "Determining the Relationship of the Mw 6.6, 24 July 2021

Batangas Earthquake to Succeeding Earthquakes Using

Coulomb Stress Transfer Modelling"

Adviser Mario A. Aurelio, Ph.D.

Hannagene Cleofe S. Dacillo Cum Laude

Undergraduate Thesis "Ore Mineralogy and Paragenesis of the 114 Vein in the

Acupan Epithermal Deposit, Baguio Mineral District,

Philippines"

Adviser Jillian Aira S. Gabo-Ratio, *D.Eng*

Chelsy O. De Asis

Undergraduate Thesis "Influence of Land Cover Change on Landslide

Susceptibility Zonation in Benguet using GIS Techniques

and Frequency Ratio Approach"

Adviser Alfredo Mahar Francisco A. Lagmay, Ph.D.

Jakob F. Decena

Undergraduate Thesis "Foraminiferal Assemblage of the Tubbataha Reefs Natural

Park"

Adviser Allan Gil S. Fernando, Ph.D.

Dahnna Marie S. Desoy

Cum Laude

Undergraduate Thesis "Tectonomagmatic Discrimination of Altered Igneous

Rocks in Didipio, Nueva Vizcaya using Whole Rock

Geochemistry"

Adviser Maria Ines Rosana Balangue-Tarriela, Ph.D.

Koreen G. Dorado

Undergraduate Thesis "Grain Size and Morphology of 2020 Taal Volcano Tephra:

Implications on Transport Processes"

Adviser Maria Ines Rosana Balangue-Tarriela, Ph.D.

Chelsea M. Espinosa

Cum Laude

Undergraduate Thesis "Downcore Benthic Foraminifera Distribution in the Gulf

of Thailand"

Adviser Allan Gil S. Fernando, Ph.D.

Anton Jose N. Fernandez

Undergraduate Thesis "Benthic Foraminifera Distribution in the Surface

Sediments of Gulf of Thailand"

Adviser Allan Gil S. Fernando, Ph.D.

Christian Dominic C. Gallego Cum Laude

Undergraduate Thesis "Importance of Structures in the Volcanic-Sedimentary

Terranes of Southern Negros"

Adviser Mario A. Aurelio, Ph.D.

Ayhin H. Itorma Cum Laude

Undergraduate Thesis "Morphological Analysis of San Pablo Maars in Laguna

using Polymorph-2D"

Adviser Noelynna T. Ramos, D.Sc.

Nikka Joy C. Macasa Cum Laude

Undergraduate Thesis "Coastal Vulnerability Assessment of Samar to Climate

Change Impacts using Google Earth Engine and GIS

Techniques"

Adviser Carlos Primo C. David, Ph.D.

Hannah Sophia N. Manuel Cum Laude

Undergraduate Thesis "Petrography and Geochemistry of the Mafic Dikes in

Southern Mankayan, Benguet"

Adviser Jillian Aira S. Gabo-Ratio, D.Eng.

Maria Dulce L. Marilla Cum Laude

Undergraduate Thesis "Structural Analysis of Southern Mindanao Terranes

Associated with the 2019 Cotabato Earthquake Sequence"

Adviser Mario A. Aurelio, Ph.D.

Angela Nicole S. Masongsong

Undergraduate Thesis "Petrographic and Sedimentological Analyses of Ceramics,

Earthenware, and Raw Materials from Bohol, Philippines"

Adviser Allan Gil S. Fernando, Ph.D.

Reign B. Megino

Undergraduate Thesis "Petrography and Geochemistry of Diabase Dikes in

Malabeg, Cabangan Massif, Zambales Ophiolite Complex"

Adviser Jillian Aira S. Gabo-Ratio, D.Eng.

John Patrick S. Naing

Undergraduate Thesis "Structures Derived from Seismic Profiles of Northwest

Panay"

Adviser Mario A. Aurelio, Ph.D.

Emilio F. Pajares Cum Laude

Undergraduate Thesis "Delineating Continental-Oceanic Terranes of Northwest

Mindoro from Gravity and Magnetic Data: Insights on the Tectonic Structure and Deformation of the Northern

PCB-PMB Collision Zone"

Adviser Leo T. Armada, Ph.D.

Fern Rose A. Peregrino Magna Cum Laude

Undergraduate Thesis "How are Arc Picrites Formed? Constraints from

"panayites" of Panay Island"

Adviser Betchaida D. Payot, Ph.D.

Felicia Eira B. Reyes Cum Laude

Undergraduate Thesis "Estimating the Groundwater Recharge of a Critical

Tropical Watershed in the Philippines: A Case Study of Pinacanauan de Tuguegarao Watershed, Cagayan"

Adviser Sandra G. Catane, Ph.D.

Co-Adviser Jayson Gabriel D. Pinza, MSc.

Dennis Christian M. Rivera Cum Laude

Undergraduate Thesis "Characterization of the Vesicle Size Distribution of the

1969 Mt. Tabaro Lava Flows: Implication to Surface

Degassing and Textural Modifications"

Adviser Maria Ines Rosana Balangue-Tarriela, Ph.D.

Layla Gabrielle B. Sevilla Magna Cum Laude

Undergraduate Thesis "Influence of the COVID-19 Pandemic on the Water

Clarity of Aquaculture Areas in the Philippines"

Adviser Carlos Primo C. David, Ph.D.

Clarice A. Tinio Cum Laude

Undergraduate Thesis "Stress Changes Along the Locked and Creeping Sections

of the Philippine Fault in Leyte Caused by Nearby Large

Magnitude Earthquakes"

Adviser Mario A. Aurelio, Ph.D.

Tiffany Ashley F. Uy Magna Cum Laude

Undergraduate Thesis "Estimating the Carbon Flux Potential of the Manleluag

Hyperalkaline Springs in Mangatarem, Pangasinan"

Adviser Carlo A. Arcilla, Ph.D.

INSTITUTE OF ENVIRONMENTAL SCIENCE AND METEOROLOGY

MASTER OF SCIENCE (ENVIRONMENTAL SCIENCE)

As of First Semester, AY 2020-2021

Jay Alvarina Ejares

B.S. Biology; University of San Carlos; 2012; M.S. Environmental Science; University of San Carlos; 2017

As of Midyear 2021

Hazel Marice Ortiz Chua

B.S. Biology; University of the Philippines, Los Baños; 2011

Master's Thesis "Morpho-Physiological Responses, Secondary Metabolite

Profiles and Antioxidant Activity of Origanum vulgare L.

Exposed to Varying Nitrogen Levels"

Adviser Dr. Juliana Janet M. Puzon, Associate Professor, Institute

of Biology, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Rene N. Rollon, Professor, Institute of Environmental

Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

Manuel Justin Galang Custado

B.S. Chemistry; University of the Philippines, Diliman; 2015

Master's Thesis "Spatial and Temporal Assessment of the Influence of

Runoff on Philippine Coastal Productivity using Gridded

Datasets"

Adviser Dr. Carlos Primo C. David, Professor, National Institute of

Geological Sciences, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Co-Adviser Dr. Benjamin M. Vallejo Jr., Professor, Institute of

Environmental Science and Meteorology, College of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

As of First Semester, AY 2021-2022

Kimberly Salazar Beltran Benjamin

B.S. Biology; University of the Philippines, Baguio; 2001; M.S. Biology; University of the Philippines, Diliman; 2007

Jose Mari Lucero Jimenez

B.S. Industrial Engineering; De La Salle University; 1992; M.A. Religious Education; De La Salle University; 2009

As of Second Semester, AY 2021-2022

Jamaica Ann Aranas Caras

B.S. Biology; University of the Philippines, Los Baños; 2014

Thesis Title "Antibiotic Resistance and Virulence Factors in the Marine

Environment: Cetaceans as Sentinels"

Co-Adviser Dr. Marie Christine M. Obusan, Associate Professor,

Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Co-Adviser Dr. Lemnuel V. Aragones, Professor, Institute of

Environmental Science and Meteorology, College of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

Russel Christine Bordaje Corcino

B.S. Biology; University of the Philippines, Diliman; 2017

Thesis Title "Modelling Potential Distribution of Jellyfish

(Scyphomedusae, Cubomedusae) in Monsoon- Influenced

Coastal Waters Using Citizen Science Data"

Adviser Dr. Lemnuel V. Aragones, Professor, Institute of

Environmental Science and Meteorology, College of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

John Claude Renan Balaibo Salluta

B.S. Biology; Southern Luzon State University; 2016

Thesis Title "Macroinvertebrate Assemblages and Functional Traits in

Ashfall-Impacted Littoral Zones of Lake Taal After the

Taal Volcano Eruption in January 2020"

Adviser Dr. Francis S. Magbanua, Professor, Institute of Biology,

College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Jonathan Carlo A. Briones, Assistant Professor,

Department of Biological Sciences, College of Science,

University of Santo Tomas, España Blvd., Manila

DIPLOMA IN ENVIRONMENTAL SCIENCE

As of First Semester, AY 2012-2013

Angelo Senin Bugarin

B.S. Chemistry; Polytechnic University of the Philippines; 2008

As of Second Semester, AY 2017-2018

Alyssa Jose Santos De Ocampo

B.S. Biology; University of the Philippines, Manila; 2015

MASTER OF SCIENCE (METEOROLOGY)

As of Midyear 2021

Alyssa Dawn Macion Castillo

B.S. Physics; Western Mindanao State University; 2016

Master's Thesis "Atmosphere and Ocean Responses to Tropical Cyclone

Hato (Isang) and Pakhar (Jolina) as Observed and

Simulated by Coupled Model"

Adviser Dr. Olivia C. Cabrera, Associate Professor, Institute of

Environmental Science and Meteorology, College of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

Shivherley Benedict Feland Tanate Dolores

B.S., M.S. Physics; University of Northern Philippines; 2013, 2015

Master's Thesis "Influence of Rainfall to Cropping Season of Rice in the

Philippines"

Adviser Dr. Gay Jane P. Perez, Professor, Institute of Environmental

Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

Co-Adviser Dr. Nathaniel R. Alibuyog, Professor and Dean, College of

Engineering, Mariano Marcos State University, Batac,

Ilocos Norte

Krishna Escalante Santos

B.S. Astronomy; Rizal Technological University; 2019

Master's Thesis "Characterizing the Transport and Meteorological Factors

in Leading to the 2019 Southeast Asian Transboundary

Haze in the Southern Philippines"

Adviser Dr. Mylene G. Cayetano, Associate Professor, Institute of

Environmental Science and Meteorology, College of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

As of First Semester, AY 2021-2022

Kevin Christopher Bolima Cordoviz

B Secondary Education; University of the Philippines, Diliman; 2012

Thesis Title "Influence of the West Pacific Subtropical High on

Landfalling Winter Tropical Cyclones in the Philippines"

Adviser Dr. Gerry Bagtasa, Professor, Institute of Environmental

Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

Arby Salamillas Lagman

B.S. Environmental Science; Manuel S. Enverga University Foundation; 2017

Master's Thesis "The Transport Process and Deposition of Ashfall Over

CALABARZON and National Capital Region During the

January 2020 Eruption of Taal Volcano, Philippines"

Adviser Dr. Mylene G. Cayetano, Associate Professor, Institute of

Environmental Science and Meteorology, College of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

Kimberly Alla Manauis

B.S. Applied Physics; University of the Philippines, Los Baños; 2018

Master's Thesis "Performance of Vegetation Index- Temperature-based

Drought Indices in Detecting Agricultural Drought in the

Philippines"

Adviser Dr. Gay Jane P. Perez, Professor, Institute of Environmental

Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

As of Second Semester, AY 2021-2022

Joanne Mae Bautista Adelino

B.S. Applied Physics; University of the Philippines, Diliman; 2020

Thesis Title "Rapidly Weakening Tropical Cyclones: Analysis and

Impacts in the Philippines"

Adviser Dr. Gerry Bagtasa, Professor, Institute of Environmental

Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman,

Ouezon City

Crizzia Mielle Mariano De Castro

B.S. Applied Physics; University of the Philippines, Diliman; 2020

Thesis Title "Hyperspectral Unmixing as an Analog Forecasting

Method During Strong Monsoon Events in the Philippines"

Adviser Dr. Gerry Bagtasa, Professor, Institute of Environmental

Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman,

Quezon City

Co-Adviser Dr. May T. Lim, Professor, National Institute of Physics,

College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

INSTITUTE OF CHEMISTRY

MASTER OF SCIENCE (CHEMISTRY)

As of Midyear, 2021

Carl Rogel Villaluz Inocentes

B.S. Chemistry; University of the Philippines, Diliman; 2012

Master's Thesis "Synthesis and Biological Activity Evaluation of a Marine

Natural Product-Inspired Peptide"

Adviser Dr. Lilibeth A. Salvador-Reyes, Professor, Marine Science

Institute, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Aaron Joseph Lucero Villaraza, Professor, Institute of

Chemistry, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Windol Charls Cape Santos

B.S. Chemistry; University of the Philippines, Diliman; 2016

Master's Thesis "Replica-Exchange Molecular Dynamics of Protein

Disulfide Isomerase-Assisted Folding of a Conotoxin"

Adviser Dr. Ricky B. Nellas, Associate Professor, Institute of

Chemistry, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2021-2022

Frances Abygail Francisco Genio

B.S. Chemistry; University of the Philippines, Diliman; 2017

Master's Thesis "Design and Synthesis of Low Molecular Weight Bis-Urea

Molecules as Rheology Modifiers"

Adviser Dr. Monissa C. Paderes, Assistant Professor, Institute of

Chemistry, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Jonathan Viray Paz

B.S. Chemistry; University of the Philippines, Los Baños; 2011

Master's Thesis Method Validation of QuEChERS and HPLC-MS/MS in

the Determination and Quantification of Neonicotinoid Residues from Local Market Basket Samples Bittergourd,

Cabbage, and Eggplant"

Adviser Dr. Lilibeth Dela Cruz Coo, Professor, Institute of

Chemistry, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

As of Second Seemster, AY 2021-2022

Rajelle Deala Hernandez

B.S. Chemistry; University of the Philippines, Diliman; 2015

Thesis Title "Synthesis of Rotenone Derivatives and Evaluation of

Their Cytotoxicity and Anticancer Properties"

Adviser Dr. Monissa C. Paderes, Assistant Professor, Institute of

Chemistry, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

BACHELOR OF SCIENCE IN CHEMISTRY

As of Second Semester, 2019-2020

Janina Eloise R. Alviar

Undergraduate Thesis "TEMPO Mediated Esterification of

Methyl-α-D-glucopyranoside"

Adviser Medel Manuel L. Zulueta, Ph.D.

As of Midyear 2021

Llednew Marie C. Garcia

Undergraduate Thesis "Synthesis of Silver Nanoparticles Using

3-Dodecyl-1-Methyl-1H-Imidazol-3-ium Citrate"

Adviser Susan D. Arco, Ph.D.

As of First Semester, 2021-2022

Roselle E. Palencia

Undergraduate Thesis "Design and Synthesis of Urea-based Low Molecular

Weight Compounds as Rheology Modifiers for

Surfactants"

Adviser Monissa C. Paderes, Ph.D.

Angelica Nicole M. Tang

Undergraduate Thesis "Optimization of Synthesis of Anthracene-Functionalized

Diaminohexane for Light-Induced [4+4] Cycloaddition"

Adviser Monissa C. Paderes, Ph.D. Co-Adviser Giovanni A. Tapang, Ph.D.

As of Second Semester, 2021-2022

Teodoro C. Agudilla, Jr. Cum Laude

Undergraduate Thesis "Evaluating the Arsenic Concentrations in Laguna Lake

and its Tributaries Through Statistical Analysis"

Adviser Maria Pythias B. Espino, Ph.D.

Danielle Ann B. Alejandro

Undergraduate Thesis "Metabolic Profiling of Disease-Specific Top-Tier Plants"

Adviser Irene M. Villaseñor, Ph.D.

Jay Sam D. Andos

Undergraduate Thesis "Evaluation of the Cyclooxygenase (COX) Enzyme

Imhibition Activities of Extracts from Averrhoa carambola

L. Leaf and Planchonella nitida Dub. Bark"

Adviser Evangeline C. Amor, Ph.D.

Laurice Gabrielle F. Angeles

Undergraduate Thesis "HMG-CoA Reductase Inhibitory Activity of Sandoricum

koetjape Leaf Extracts"

Adviser Christine C. Hernandez, Ph.D.

Glendale D. Boholano Cum Laude

Undergraduate Thesis "Synthesis and Structure-Property-Performance

Relationships of Fe-Based Metal Organic Framework as Cathode Material for Rechargeable Lithium-ion Batteries"

Adviser Marlon T. Conato, Ph.D.

Christopher Gene R. Calibo Magna Cum Laude

Undergraduate Thesis "Synthesis and Characterization of Curcumin Analogs as

Potential ACE2 Inhibitors"

Adviser Monissa C. Paderes, Ph.D.

Ma. Juliana R. Callangan Magna Cum Laude

Undergraduate Thesis "Synthesis and *In Silico* Evaluation of *O*-alkylated BCE

Truncated Deguelin Analogs as Potential Hsp90 C-Terminal

Inhibitors"

Adviser Monissa C. Paderes, Ph.D. Co-Adviser Ricky B. Nellas, Ph.D.

Janrick G. Cayetano Summa Cum Laude

Undergraduate Thesis "Synthesis and pH-Dependent Gelation Studies of Phenyl

Bis-Urea Hydrogelators"

Adviser Monissa C. Paderes, Ph.D.

April Mae V. Dacula

Undergraduate Thesis "Cellulose Dissolution in Binary Ionic Liquids for the

Fabrication of Silver-Regenerated Cellulose Composites"

Adviser Susan D. Arco, Ph.D.

Neikoll Aleja S. Del Mundo Cum Laude

Undergraduate Thesis "Cyclooxygenase (COX) Inhibitory Activity of Calamus

Merrillii Becc. and Livistona Rotundifolia (Lam.) Mart.

Leaf Extracts "

Adviser Evangeline C. Amor, Ph.D.

Maxine T. Dimaano Cum Laude

Undergraduate Thesis "Adsorption of Methylene Blue in Aqueous Solution by

MIL-88b(Fe) and MIL-101(Fe) Metal-Organic

Frameworks"

Adviser Marlon T. Conato, Ph.D.

Izabelle A. Dolores Cum Laude

Undergraduate Thesis "1-Dodecyl-3-methyl-1*H*-imidazol-3-ium Ionic Liquid

Derivatives as Potential Dual Reductant Systems for Gold

Nanoparticle Synthesis"

Adviser Susan D. Arco, Ph.D.

Francis Angelo N. Dominguez Magna Cum Laude

Undergraduate Thesis "Electrochemically Reduced Graphene Oxide as Glassy

Carbon Electrode Modifier for the Electrochemical

Detection of Fenitrothion"

Adviser Allan Christopher C. Yago, Ph.D.

Arianna Francesca P. Dumlao Cum Laude

Undergraduate Thesis "Spatio-Temporal Variabilities of Ions as Determinants of

Algal Growth in Laguna De Bay"

Adviser Maria Pythias B. Espino, Ph.D.

Stephanie Alyzza S. Fadri Cum Laude

Undergraduate Thesis "Angiotensin-Converting Enzyme (ACE) Inhibitory

Activity of Pseudelephantopus spicatus (Juss. ex Aubl.)

C.F. Baker Leaf Extracts"

Adviser Christine C. Hernandez, Ph.D.

Jomari C. Fernando Magna Cum Laude

Undergraduate Thesis "In silico and in vitro Structure-Activity Relationship

Studies on the Antomicrobial Peptide lyp1987 from Lycosa

poonaensis"

Adviser Aaron Joseph L. Villaraza, Ph.D., MRSC

Bianca Emmanuelle C. Gancia Cum Laude

Undergraduate Thesis "Inhibition of Angiotensin-Converting Enzyme (ACE) by

Ficus fiskei Elmer Leaf Extracts"

Adviser Christine C. Hernandez, Ph.D.

Angela Mae F. Gascon Magna Cum Laude

Undergraduate Thesis "HMG-CoA Reductase Inhibitory Activity of Calamus

merrillii Stem Extracts"

Adviser Christine C. Hernandez, Ph.D.

Beatrice Angela D. Gomez

Undergraduate Thesis "Structure Analysis and Ion Exchange of Sodalite (SOD)

Synthesized from Kaolin Clay Material"

Adviser Marlon T. Conato, Ph.D.

Claire F. Grecia Magna Cum Laude

Undergraduate Thesis "Angiotensin-Converting Enzyme (ACE) Inhibitory

Activity of Aeschynomene indica L. Leaf Extracts"

Adviser Christine C. Hernandez, Ph.D.

Alexandria M. Grospe Magna Cum Laude

Undergraduate Thesis "Design and Synthesis of Quercetin Derivatives as ACE2

Inhibitors Against COVID-19"

Adviser Monissa C. Paderes, Ph.D.

Yroi E. Ignacio

Undergraduate Thesis "Synthesis and Structural Analysis of Mordenite-Type

Zeolites and their Influence on the Engineering Properties

of Concrete"

Adviser Marlon T. Conato, Ph.D.

Charlene Claudette F. Inao Cum Laude

Undergraduate Thesis "3-Hydroxy-3-methyl-glutaryl-coenzyme A (HMG-CoA)

Reductase Inhibitory Activity of Artocarpus blancoi

Leaves"

Adviser Christine C. Hernandez, Ph.D.

John Voltaire R. Jalalon Cum Laude

Undergraduate Thesis "A Green and Facile Synthetic Approach to Ag

Nanoarchitectures for Catalytic Reduction of

4-Nitrophenol"

Adviser Michelle D. Regulacio, Ph.D.

Miguel Angel P. Juan Magna Cum Laude

Undergraduate Thesis "Angiotensin-Converting Enzyme Inhibitory Activity of

Antidesma bunius (L.) Spreng Leaf Extracts"

Adviser Christine C. Hernandez, Ph.D.

Kristine Anne A. Ladines Cum Laude

Undergraduate Thesis "Finding MeOH: A Comprehensive Literature Review on

Methods for the Determination of Methanol in Lambanog

and Alcoholic Beverages"

Adviser Cynthia Grace C. Gregorio, Ph.D.

Johanna Lindsay G. Lautchang Cum Laude

Undergraduate Thesis "Alpha-Glucosidase Inhibitory Potential of *Myristica*"

philippensis Lam Leaf Extract and Bischofia javanica

Blume Bark Extract"

Adviser Evangeline C. Amor, Ph.D.

Pete Gabriel L. Ledesma Magna Cum Laude

Undergraduate Thesis "Generation of Potential B-cell Lymphoma 2 (Bcl-2)

Inhibitors from S55746 Fragments Using a Genetic

Algorithm"

Adviser Ricky B. Nellas, Ph.D.

Joshua Jener D. Lopez Magna Cum Laude

Undergraduate Thesis "The Role of Glycerol-Water Mixtures in Stability and

Ligand Binding of FKBP12-Rapalog-FRB Complexes"

Adviser Ricky B. Nellas, Ph.D.

Jerrieme Lemuel A. Maderazo Cum Laude

Undergraduate Thesis "Chromolaena odorata Linn. Extracts as a Potential Source

of Angiotensin-Converting Enzyme Inhibitors"

Adviser Christine C. Hernandez, Ph.D.

Lorenzo Angelo M. Mapalo Cum Laude

Undergraduate Thesis "Conferring Color and Antibacterial Properties on Cotton

Fabric Using Green-Synthesized Gold and Silver

Nanoparticles"

Adviser Michelle D. Regulacio, Ph.D.

Jethroi B. Mendoza Cum Laude

Undergraduate Thesis "Comparative Analysis of the Crystal Structures of Zeolites

and Selection of Candidate Zeolites for Adsorption of Cs

and Sr Radionuclides"

Adviser Marlon T. Conato, Ph.D.

Jewel Marie N. Monteverde Cum Laude

Undergraduate Thesis "A Comprehensive Review of Home-Based Analytical

Chemistry Experiments Implemented During the

Pandemic"

Adviser Cynthia Grace C. Gregorio, Ph.D.

Karyll Kate S. Nakagawa Cum Laude

Undergraduate Thesis "Pollution Evaluation, Risk Assessment, and Source

Apportionment of Heavy Metals in Philippine Waters Using

Statistical Approaches"

Adviser Maria Pythias B. Espino, Ph.D.

Claire Millicent A. Narag Magna Cum Laude

Undergraduate Thesis "Applying Trophic State Indices to Classify Eutrophication

Level in Laguna Lake"

Adviser Maria Pythias B. Espino, Ph.D.

Jerome Jean B. Palaganas

Undergraduate Thesis "Cinnamon Extract Loaded Highly Aligned Electrospun

Chitosan/Polyethylene Oxide Nanofibrous Scaffolds with

Potential Antibacterial Wound Dressing"

Adviser Allan Christopher C. Yago, Ph.D.

Odeine Eindmari S. Paras

Undergraduate Thesis "Angiotensin-Converting Enzyme (ACE) Inhibitory

Activity of Ficus pseudopalma Blanco Leaf Extracts"

Adviser Christine C. Hernandez, Ph.D.

Jacob Benjamin A. Parulan Magna Cum Laude

Undergraduate Thesis "Alpha-Glucosidase Inhibitory Activity of Annona

muricata L. and Donax canniformis (G. Forst.) K. Schum.

Leaf Extracts"

Adviser Evangeline C. Amor, Ph.D.

Lester Dave G. Pua

Undergraduate Thesis "Synthesis of 1-Butyl-3-Vinylimidazolium Dicarboxylate

Ionic Liquids as Supercapacitor Electrolytes"

Adviser Susan D. Arco, Ph.D.

Jon Loewi D. Sacote

Undergraduate Thesis "Cyclooxygenase Inhibitory Activity of *Premna odorata*"

Blanco Leaves"

Adviser Evangeline C. Amor, Ph.D.

Steven James C. Salvador

Undergraduate Thesis "In Silico and In Vitro Studies on the Anticancer Activity of

C12 Derivatives of Rotenone,"

Adviser Monissa C. Paderes, Ph.D. Co-Adviser Ricky B. Nellas, Ph.D.

Kim S. Somera

Undergraduate Thesis "Inhibitions of 3-hydroxy-3-methylglutaryl Coenzyme A

Reductase (HMGR) by Dracontomelon edule (Lamio) Leaf

Extract"

Adviser Christine C. Hernandez, Ph.D.

Lara Beatrice L. Suñga Cum Laude

Undergraduate Thesis "HMG-CoA Reductase Inhibitory Activity of *Eucalyptus*

deglupta Leaf Extracts"

Adviser Christine C. Hernandez, Ph.D.

Carla Mae Marie E. Tan Cum laude

Undergraduate Thesis "Synthesis of 1-Vinylimidazolium [RVIm] Ionic Liquid

Stabilizers for Magnetic Iron Oxide Nanoparticles

Synthesis"

Adviser Susan D. Arco, Ph.D.

INSTITUTE OF BIOLOGY

MASTER OF SCIENCE (BIOLOGY)

As of Midyear 2021

Ericka Jane Adesna Angeles

B Secondary Education; University of the Philippines, Diliman; 2015

Master's Thesis "Diversity of Earthworms Across an Elevational Gradient

in Mt. Sawtooth and its Neighboring Highlands in the

Zambales Mountain Range, Philippines"

Adviser Dr. Carmela P. Española, Assistant Professor, Institute of

Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Ma. Greta Tabin Jacinto

B.S. Biology; University of the Philippines, Diliman; 2013

Master's Thesis "Diffusion Model to Describe Forest Health, Biomass and

Abundance of the Palanan Forest Dynamics Plot (PFDP)"

Adviser Dr. Lillian Jennifer V. Rodriguez, Assistant Professor,

Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Co-Adviser Dr. Giovanni A. Tapang, Professor, National Institute of

Physics, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

MASTER OF SCIENCE (MICROBIOLOGY)

As of First Semester, AY 2021-2022

Katrina Mae Burgos Balaga

B.S. Biology; University of Southern Eastern Philippines; 2017

Master's Thesis "Understanding the Underlying Genetic Basis of Pathogen

Establishment in Banana Sigatoka Disease Complex, Phylogenetic Diversity, and Fungicide Resistance of *Pseudocercospora* spp. Through Comparative Genomics"

Adviser Dr. Leilani G. Sumabat-Dacones, Assistant Professor,

Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Gicelle Temblon Malajacan

B.S. Biology; University of the Philippines, Los Baños; 2015

Master's Thesis "Host-specific Bacteroides 16S rDNA-based Markers

Reveal Sources of Fecal Pollution in Laguna Lake,

Philippines"

Adviser Dr. Windell L. Rivera, Professor, Institute of Biology,

College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

Mae Ashley Gloria Nacario

B.S. Biology; University of the Philippines, Los Baños; 2011

Master's Thesis "DNA Fingerprinting Using BOX-A1R and (GTG)₅

Primers to Identify Spatial Variations of Fecal

Contamination along Pasig River, Philippines"

Adviser Dr. Windell L. Rivera, Professor, Institute of Biology,

College of Science, National Science Complex, University

of the Philippines, Diliman, Quezon City

Elaine Mundo Romines

B.S. Biology; Pamantasan ng Lungsod ng Maynila; 2017

Master's Thesis "Identification and Characterization of Secondary

Metabolite Biosynthesis Gene Clusters (BGCs) from Metagenome-Assembled Genomes of Cyanobacteria with

Anti-Viral Potential"

Adviser Dr. Ernelea P. Cao, Professor, Institute of Biology, College

of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

Co-Adviser Dr. Libertine Rose S. Sanchez, Senior Lecturer, Institute of

Biology, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Danica Pearl Macaraeg Untiveros

B.S. Biology; New Era University; 2017

Master's Thesis "Comparative Metagenomics Analysis of the Bacterial

Communities Found in the Inactive Re-vegetated and Active Copper Mine Tailings in Tuba, Benguet,

Philippines"

Adviser Dr. Ernelea P. Cao, Professor, Institute of Biology, College

of Science, National Science Complex, University of the

Philippines, Diliman, Quezon City

Co-Adviser Dr. Libertine Rose S. Sanchez, Senior Lecturer, Institute of

Biology, College of Science, National Science Complex,

University of the Philippines, Diliman, Quezon City

Ren Mark De Guzman Villanueva

B.S. Biology; Adamson University; 2014

Master's Thesis "Antibiotic Resistance Genes and Susceptibility Patterns of

Enterobacteriaceae Isolated from Cetaceans that Stranded

in the Philippines from 2017-2019"

Adviser Dr. Marie Christine M. Obusan, Associate Professor,

Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

As of Second Semester, AY 2021-2022

Gerald Amiel Mendoza Ballena

B.S. Biology; University of the Philippines, Baguio; 2018

Thesis Title "In silico Assessment of Pathogenicity and

Metal-resistance Potential of Phylogenetically Diverse and

Morphologically Indistinguishable Fusarium spp."

Adviser Dr. Leilani G. Sumabat-Dacones, Assistant Professor,

Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

Rhenz Cedrick Mabunga Cequeña

B.S. Biology; University of Rizal System; 2019

Thesis Title "Detection of Putative Effectors, Virulence Genes, and

Their Variations Among Elsinoë spp. by Comparative

Genome Analyses"

Adviser Dr. Leilani G. Sumabat-Dacones, Assistant Professor,

Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon

City

BACHELOR OF SCIENCE IN BIOLOGY

As of Second Semester, 2020-2021

Alexis Emilia D. Martin

Undergraduate Thesis "Targeting the p53 Signaling Pathway in Senescent Cells"

Adviser Michael C. Velarde Ph.D.

As of Midyear 2021

Cristina Gabrielle G. Gan

Undergraduate Thesis "Assessment of Possible Horizontal Gene Transfer of

Heavy Metal Resistance Genes, merA and arsB, Among

Selected Archaea and Bacteria"

Adviser Jessica F. Simbahan, Ph.D.

As of First Semester, 2021-2022

Michelle Lourdes L. Estrada Cum Laude

Undergraduate Thesis "Inferences on the Phylogeography of Fungicide

Resistance in Alternaria alternata and Altenaria solani to

SDHI Fungicides"

Adviser Leilani G. Sumabat-Dacones, Ph.D.

Angelica Mae P. Tongco

Undergraduate Thesis "Design of a Multi-Epitope Subunit Vaccine Candidate for

Chikungunya Virus (CHIKV) via Computational

Methodology"

Adviser Windell L. Rivera, Ph.D

As of Second Semester, 2021-2022

Ana Gabrielle C. Alcantara

Undergraduate Thesis "Geographic Variation of Song Vocalization in

Grey-Backed Tailorbird (Orthotomus derbianus),

White-Browed Shama (Kittacincla luzoniensis), Philippine

Bulbul (Hypsipetes philippinus)"

Adviser Carmela P. Española, Ph.D.

Bryan C. Alpecho Cum Laude

Undergraduate Thesis "Impact of Two Successive Typhoons on Littoral Water

Quality and Plankton Communities in the Pantabangan

Reservoir"

Adviser Francis S. Magbanua, Ph.D. Co-Adviser Mariano Roy M. Duya, Ph.D.

Ernest Raphael P. Arceo

Cum Laude

Undergraduate Thesis "A Meta-Analysis of Vegetation-Fish Relationship in

Philippines Mangroves"

Adviser Severino G. Salmo III, Ph.D.

Pierre Angeli P. Barbaso

Cum Laude

Undergraduate Thesis "Microbiological Quality Assessment of Water in Laguna

de Bay"

Adviser Marie Christine M. Obusan, Ph.D.

Co-Adviser Arizaldo E. Castro, MS

Gabriel Albert Miguel O. Bautista Cum Laude

Undergraduate Thesis "Survey of Proteins in the Cell Surface of *Leptospira* sp.

for Aptamer Targets through Bioinformatics Approaches"

Adviser Windell L. Rivera, Ph.D.

Angelo John V. Bonotan

Cum Laude

Undergraduate Thesis "Identification of Potential MAIT Cell-Activating Lactic

Acid Bacteria-Derived Riboflavin Metabolites Using

Molecular Docking Analysis"

Adviser Ahmad Reza F. Mazahery, Ph.D. Co-Adviser Francis James Gordovez, M.D., Ph.D.

Korreine A. Buccat

Cum Laude

Undergraduate Thesis "Assessment of Teratogenic Effects of Local water

Samples on Craniofacial Cartilage Structures of zebrafish

Danio rerio Larvae"

Adviser Lerrie Ann D.G. Ipulan-Colet, Ph.D.

Alfonso Miguel L. Casanova Cum Laude

Undergraduate Thesis "A Meta-Analysis on the Incidence of Acute Kidney Injury

(AKI) as an Adverse Drug Reaction after Administration of

Remdesivir as an Antiviral Drug in COVID-19"

Adviser Zenith Gaye A. Orozco-Bautista, Ph.D.

Karen Leila S. Carvajal Cum Laude

Undergraduate Thesis "In Silico Analysis of TGF-β-Mediated Epithelial to

Mesenchymal Transition (EMT) and its Relationship with Glycolysis in Non-Small Cell Lung Cancer (NSCLC)"

Adviser Ahmad Reza F. Mazahery, Ph.D. Co-Adviser Francis James Gordovez, M.D., Ph.D

Justin Gabriel B. Chua

Magna Cum Laude

Undergraduate Thesis "Co-Occurrence and Phylogenetic Analysis of Metal

Resistance Genes and Antibiotic Resistance Genes of Bacteria Predicted to be Present in Heavy Metal Polluted

River Systems"

Adviser Jessica F. Simbahan, Ph.D.

Sean Philippe L. Chua

Cum Laude

Undergraduate Thesis "Morphological and Molecular Characterization of

Curvularia sp. Isolates Reported in Tomatoes, Garlic and

Onion in the Philippines"

Adviser Leilani G. Sumabat-Dacones, Ph.D.

Lea Gavrielle D. Dacayo

Cum Laude

Undergraduate Thesis "Functional Annotation of Genes Associated with Disease

Resistance in the *Coffea canephora L.* Genome"

Adviser Ernelea P. Cao, Ph.D.

Frances Danielle A. De Leon Magna Cum Laude

Undergraduate Thesis "Species Assemblage and Diversity of Herpetofauna

Across a Lowland Forest Landscape in Silago, Southern

Leyte, Philippines"

Adviser Mariano Roy M. Duya, Ph.D.

Skyla Dennise U. Diaz

Cum Laude

Undergraduate Thesis "Assessment of Acoustic Indices as Proxies for Avian

Species Richness in the National Science Complex,

University of the Philippines Diliman"

Adviser Jelaine L. Gan, M.Sc. Co-Adviser Giovanni A. Tapang, Ph.D.

Garret Royce K. Dychiao

Magna Cum Laude

Undergraduate Thesis "Assessment of the Effects of Ficus Psuedopalma Blanco

Methanolic Extracts on Myogenesis in C2C12 Muscle Cell

Line"

Adviser Lerrie Ann D.G. Ipulan-Colet, Ph.D.

Kris Jypson T. Esturas Summa Cum Laude

Undergraduate Thesis "Association of per- and Polyfluoroalkyl Substances and

Bone Mineral Density in the US Population as Stratified by Sex and Phases of Age-Related Changes in Bone Mass"

Adviser Michael C. Velarde, Ph.D.

Daryl Gene D. Galela Cum Laude

Undergraduate Thesis "Gene Expression Analysis of Dner, Bmper and Col8a1

Genes and Possible Interaction with Androgen Signaling in

the Perineum Mesenchyme in Mice"

Adviser Lerrie Ann Ipulan-Colet, Ph.D.

Ma. Mikaela C. Jose Magna Cum Laude

Undergraduate Thesis "In Silico Approaches on the Elucidation of the Structure

of Aptamer Target Proteins on Leptospira sp. Cell Surface"

Adviser Windell L. Rivera, Ph.D.

Kyra Kim V. Justiniano Magna Cum Laude

Undergraduate Thesis "Investigating Cell Signaling Pathways of Diabetes,

Obesity and COVID-19 in the Context of Sugar-Sweetened

Beverages Consumption in the Philippines"

Adviser Joyce A. Ibana, Ph.D.

Jeri E. Latorre Magna Cum Laude

Undergraduate Thesis "Species Distribution Mapping and Forest Dynamics of a

2-Hectare Permanent Forest Plot in Nueva Ecija,

Philippines"

Adviser Lillian Jennifer V. Rodriguez, Ph.D.

Celle Elijah Bernardine D. Lo Magna Cum Laude

Undergraduate Thesis "Meta-Analysis on the Consumption of Human, Bovine

and Goat Milk in the Modulation of the Gut Microbiota in

the Context of Colorectal Cancer"

Adviser Joyce A. Ibana, Ph.D. Co-Adviser Alysa G. Estopace, M.Sc.

Jeanny Mae B. Magana Magna Cum Laude

Undergraduate Thesis "Distribution of Nitrogen Fixation Genes in Endophytic

Bacterial Genomes"

Adviser Jessica F. Simbahan, Ph.D.

Ivy E. Mendoza

Undergraduate Thesis "Drought-Tolerant Gene Homologs of Plants Present in

Selected Plant-Associated and Non-Plant-Associated

Bacillus Species"

Adviser Jessica F. Simbahan, Ph.D.

Lorraine Mikaela Nabong Cum Laude

Undergraduate Thesis "Multi-Locus Phylogenetic and Diversity Analysis of

Global Aspergillus fumigatus Isolates from Different

Environments and Fungal Lifestyles"

Adviser Leilani G. Sumabat-Dacones, Ph.D.

Joshua B. Naval Magna Cum Laude

Undergraduate Thesis "Assessment of Synonymous and Nonsynonymous

Mutations on the Surface Glycoprotein (gp120) Gene of

HIV-1"

Adviser Ian Kendrich C. Fontanilla, Ph.D.

Danica L. Ongray Magna Cum Laude

Undergraduate Thesis "In silico Analysis of the Antimicrobial Activity of

2,4-diacetylphloroglucinol Against Staphylococcus

aureus"

Adviser Gil M. Penuliar, Ph.D.

Co-Adviser Jann Eldy L. Daquioag, MSc.

Mikhaela Ronn G. Paclibar Magna Cum Laude

Undergraduate Thesis "In silico Analysis of Differential Gene Expression Profiles

of Select Breast Cancer Cell Lines Treated with Various

Chemotherapy Drugs"

Adviser Michael C. Velarde, Ph.D.

Sophia Mae P. Perez Cum Laude

Undergraduate Thesis "Investigating the Cultural, Morphological, Phylogenetic

Diversity, and Biosynthetic Gene Clusters in

Colletotrichum gloeosporioides"

Adviser Leilani G. Sumabat-Dacones, Ph.D.

Angelica Maria Noelle F. Riñosa Cum Laude

Undergraduate Thesis "MAT1-1 and Mat1-2 Idiomorphs in Aspergillus fumigatus

Isolates and their Association with Mating and Meiosis

Genes"

Adviser Leilani G. Sumabat-Dacones, Ph.D.

Arielle Maria Victoria F. Riñosa Cum Laude

Undergraduate Thesis "Data Analysis on the mRNA Expression of Intestinal

Amino Acid Transporter slc7a9 in Oreochromis

mossambicus in Response"

Adviser Zenith Gaye A. Orozco-Bautista, Ph.D.

Jeanuelle S. Ruiz Cum Laude

Undergraduate Thesis "Differential Expression Meta-Analysis of

Biofilm-Associated Genes in Staphylococcus aureus"

Adviser Gil M. Penuliar, Ph.D.

Effie Mae S. Sabaot Magna Cum Laude

Undergraduate Thesis "Embryotoxic and Teratogenic Assessment of Metro

Manila Water Samples on Zebrafish Danio rerio Embryo

and Larvae"

Adviser Lerrie Ann Ipulan-Colet, Ph.D.

Jedidiah John U. Salbibia Cum Laude

Undergraduate Thesis "In silico Determination of the Inhibitory Activity of

Capuramycin and its Analogues against the MraY of

Neisseria gonorrhoeae"

Adviser Gil M. Penuliar, Ph.D.

Co-Adviser Ma. Socorro Edden P. Subejano, MSc.

Maria Gabriella Adrienne B. Silao Cum Laude

Undergraduate Thesis "Serum and Peritoneal Interleukin-6 Levels in Stages I and

II vs. III and IV of Endometriosis: A Meta-Analysis"

Adviser Zenith Gaye Orozco-Bautista, Ph.D.

Sean F. Sta. Maria Cum Laude

Undergraduate Thesis "Mitochondrial Q-Cycle Network Analysis using Monte

Carlo Methods"

Adviser Michael C. Velarde, Ph.D.

Juris Justin M. Tovera Magna Cum Laude

Undergraduate Thesis "Antibiotic Resistance in the Philippines from the

Perspectives of Animal Rearing and Fish Farming: A

systematic Review and Meta-Analysis"

Adviser Joyce A. Ibana, Ph.D.

Patricia Irhene V. Trajano Magna Cum Laude

Undergraduate Thesis "Effect of Garcinia binucao Crude Leaf Extracts on

Skeletal Muscle C2C12 Myoblast Proliferation and

Differentiation"

Adviser Lerrie Ann Ipulan-Colet, Ph.D.

Nicole C. Valdez Magna Cum Laude

Undergraduate Thesis "Molecular Docking Simulation Analysis of Flavonoids

and Estrogen Receptors in Breast Cancer"

Adviser Ahmad Rezy F. Mazahery, Ph.D.

Co-Adviser Javier Lozano, Ph.D.

Arianne Gail D. Yaneza Magna Cum Laude

Undergraduate Thesis "Identifying the Underlying Genetic Link Between

Environmental and Clinical Populations of Aspergillus

fumigatus with Resistance to Antifungal Drugs"

Adviser Leilani G. Sumabat-Dacones, Ph.D.

THE STUDENT AWARDS

Leticia Shahani Award

The **Leticia Shahani Award** is a recognition for students with excellent undergraduate theses or research papers. The awardees, who are recommended by their respective Institutes, receive a Certificate of Recognition and a cash prize of P10,000.00, which is funded by a donation made by the late Senator Shahani in 1999. This was instituted during the term of Dean Danilo M. Yanga.

CS Excellence Award

The **CS Excellence** Award is given to students who garnered the highest Cumulative Weighted Average Grade (CWAG) in their respective degree, or otherwise satisfied other criteria, upon the recommendation of their respective Institutes. The awardees receive a Certification of Recognition and a cash prize of P10,000.00 each. This was instituted during the term of Dean Rhodora V. Azanza from funds made available by Senator Joker P. Arroyo.

Excellence in B.S. Studies

This award is given to the B.S. graduate of the College who garnered the highest Cumulative Weighted Average Grade (CWAG).

Dr. Edgardo D. Gomez Award

The **Dr. Edgardo D. Gomez Award** is given to a Ph.D. graduate with an outstanding scholastic record and who has the most number of papers published or accepted for publication in ISI journals. The publications must be related to the student's dissertation and have been published during his/her residency in the College. The Award is in honor of Dr. Edgardo D. Gomez of the Marine Science Institute, for his lifelong dedication and service to UP and for his example of excellence in scientific research, teaching and science administration. The awardee receives a Certificate of Recognition and a cash prize of P20,000 from an anonymous donor.

Most Outstanding Graduate (M.S. and Ph.D.)

The awardee is chosen among the nominees from the Institutes by the Committee on Academic Affairs of the College. The student must have demonstrated academic excellence and the ability to do research. For the Most Outstanding M.S. Graduate, a part of his/her thesis must have been published in a refereed journal or presented in a conference. For the Most Outstanding Ph.D. Graduate, publication in a peer-reviewed journal is required.

SUMMA CUM LAUDE GRADUATES

2021	CARMELA MARIA P. BERBA STEPHANIE NICOLE O. GO GABRIELLE MARIE L. CHUNGUNCO KATE ALLISON S. CO	BIOLOGY APPLIED PHYSICS MBB* MBB*
2020	BEATRICE HOPE G. REYES RYAN KENDRICK U. LIM CHLOE B. BORROMEO	BIOLOGY MBB* MBB*
2019	ERIKA ANTONETTE T. ENRIQUEZ JAMIE CHRISTINE B. LIM JERIELLE V. MALONZO SETHRIC ANDRE S. MESOZA ELOISE P. MISA EXEQUIEL KIM ISAAC L. SALVADOR JOSEPH NEOS C. CRUZ JOSHUA MIGUEL C. DANAC SAM EZRAEL L. DELA CRUZ WEAND S. YBAÑEZ KARLO N. DE LEON	MATHEMATICS MATHEMATICS MATHEMATICS MATHEMATICS MATHEMATICS MATHEMATICS MBB* MBB* MBB* MBB* MBB* PHYSICS
2018	ANDREA DENISE L. ONG	MBB*
2017	CHRISTIAN A. CARIÑO PHILIP CHRISTOPHER S. CRUZ ARMAN A. GHODSINIA JAN PATRICK C. TAN KRISTINE LARISSA B. YU RYAN TIMOTHY D. YU	CHEMISTRY PHYSICS MBB* MBB* CHEMISTRY MBB*
2016	JIAN KENZO O. LEAL ISAIAH PAOLO A. LEE MIGUEL RICARDO R. LEUNG STEPHEN JUNE D. TIONGSON DANIEL O. YOUNG	MBB* MBB* MBB* MATHEMATICS MATHEMATICS
2015	ARDEA M. LICUANAN TIFFANY GRACE C. UY DOMINIC S. ALBAO JOSE LORENZO M. FERRER MARTIN DANIEL C. QUI KENNETH ANTHONY R. ROQUID LIEZEL U. TAMON	BIOLOGY BIOLOGY MBB MBB MBB MBB
2014	KENJI ROWEL Q. LIM ERIC DAVID B. ORNOS RALPH JOHN O. UGALINO	MBB BIOLOGY CHEMISTRY
2013	CHARLES MICHAEL T. HERRERA MICHELLE ANN S. LAO JANE MELISSA DE LEON LIM	BIOLOGY BIOLOGY MBB*

	MELVIN FLOYD E. SEE JANN ADRIEL C. SY	MBB* MBB*
2012	MARK JASPER L. CO PATRICIA MARIA GREGORIA V. MINA BIOLOG CHERRY JOY F. TUMAMPO	MATHEMATICS Y MBB*
2011	MICHELLE GRACE T. ACOBA CORRINA P. AZARCON HERDELINE ANN M. ARDOÑA DENNIS IVAN W. DIAZ OHN GABRIEL P. PELIAS JOANA JANE C. TAN	MBB* CHEMISTRY CHEMISTRY APPLIED PHYSICS MATHEMATICS MATHEMATICS
2010	MIGUEL CARLOS I. GONZALEZ MA. ISABELLA C. PAMINTUAN FIDES ANGELI DELA CRUZ ZAULDA	CHEMISTRY MBB* MBB*
2009	JOSEPH RAY CLARENCE G. DAMASCO SHYNE D. GALAPON SCOTT RILEY K. ONG JUAN LORENZO B.PABLO ANGELO ARSENIO DE GUZMAN SANTOS JOSEPH JEEBEN R. SEGUI MIKHAIL P.SOLON	MATHEMATICS CHEMISTRY BIOLOGY MBB* MATHEMATICS MATHEMATICS PHYSICS
2008	CHRISTINA LORA M.LEYSON ANDREA FRANCESCA M.SALVADOR GLAIZA LYN A. TAN	MBB* MBB* MBB*
2007	IVAN CHESTER G. CANOY MIKAELA IRENE D. FUDOLIG HANNAH HAZEL A. MORALES	BIOLOGY PHYSICS CHEMISTRY
2006	CHARISSA MARIE R. CARAG CHRISTIAN DANVE M. CASTROVERDE CARLA CHERYL A. CORDOVA CHRISTINE L. HONRADO KAREN KATRINA G. MANALASTAS FRANCIS NORMAN C. PARAAN LOUIE JOHN D. VALLEJO	MBB* MBB* MBB* MATHEMATICS MBB* PHYSICS MATHEMATICS
2005	LAURO VALENTE L. ABRAHAN IV NOELLE ANDREA V. FABIE JUVELENE C. ITUM RACHELLE C. URETA CHRISTOPHER A. YOUNG	MBB* MBB* MATHEMATICS MATHEMATICS MATHEMATICS
2003	MA. CRISTINA R. BARGO	MATHEMATICS
2002	KAREN KATE O. DAVID	MBB*
1998	MAY T. LIM APPLIED	PHYSICS

1997	ALEX G. LIOK MARC C. LLAGUNO HONESTO FRANZ MAXIMILLIAN A. NUQUI	MATHEMATICS PHYSICS MATHEMATICS
1996	IGNATIUS GERARDO E. ZARRAGA	CHEMISTRY
1994	LAARNI VERA PRISKA T. BULAN CHRISTIAN CALYNN T. CHENG CARLO RAYMUND R. CRUZ JOSE ERNIE C. LOPE AGHAM BAYAN S. POSADAS	MATHEMATICS MATHEMATICS MATHEMATICS MATHEMATICS APPLIED PHYSICS
1993	SALVADOR EUGENIO DC. CAOILI	MBB*
1991	RIA MONINA GEORGINA F. APELO	MATHEMATICS
1990	ARLENE C. KEH	BIOLOGY
1989 1988	FRANCISCO SA. SANDEJAS MA. CARMINA E. PEREZ ALBERTO REYNALDO MELCHOR S. SANTOS-OCAMPO	APPLIED PHYSICS BIOLOGY BIOLOGY
1987	DENNIS MENANDRO I. MERINO	MATHEMATICS
1986	SUSAN D. TIUKINHOY	BIOLOGY
1985	LORRAINE Y. BANGAYAN JADE OLIVIA SOLEDAD J. BAÑEZ DINNA N. CRUZ EDUARDO M. REYES III SYLVIA D. SANTOS-OCAMPO	BIOLOGY BIOLOGY ZOOLOGY MATHEMATICS BIOLOGY
1984	PEDRO G. NEBRES JR.	MATHEMATICS

*MOLECULAR BIOLOGY AND BIOTECHNOLOGY

MOST OUTSTANDING PH.D. GRADUATES

2021	DAMIAN NALE DAILISAN	PHYSICS		
2020	REGINALD CHRISTIAN S. BERNARDO	PHYSICS		
2019	ALEXANDRA B. SANTOS-PUTUNGAN	MSE*		
2018	FREDMOORE L. OROSCO	BIOLOGY		
2017	MARVIN M. FLORES	PHYSICS		
2016	JOSEPH RAPHAEL R. BUNAO	PHYSICS		
2015	RICHARD N. MUALLIL	MSI		
2014	RENIEL B. CABRAL	PHYSICS		
2013	OLIVIA C. CABRERA	MARINE SCIENCE		
2012	JEFFREY C. DE VERO	PHYSICS		
2011	ERIKA FILLE T. LEGARA	PHYSICS		
2010	GODOFREDO S. BAUTISTA, JR.	PHYSICS		
2009	GAY JANE P. PEREZ	PHYSICS		
2008	JONAS P. QUILANG	BIOLOGY		
2007	DRANREB EARL O. JUANICO	PHYSICS		
2006	RONALD D. VILLANUEVA	MARINE SCIENCE		
2005	ELMER S. ESTACIO	PHYSICS		
2004	ARMANDO S. SOMINTAC	PHYSICS		
2003	MAY T. LIM	PHYSICS		
2002	CHRISTOPHER P. MONTEROLA	PHYSICS		
2001	DELLA GRACE GALOPE-BACALTOS	MARINE SCIENCE		
2000	CARLO MAR Y. BLANCA	PHYSICS		
1999	MARITINA T. CASTILLO	MATHEMATICS		
1998	MARICOR N. SORIANO	PHYSICS		
1997	SUSAN D. ARCO	CHEMISTRY		
1996	JURGENNE A. HONCULADA-PRIMAVERA	MARINE SCIENCE		
1995	GISELA P. CONCEPCION	CHEMISTRY		
1994	LEONORINA G. CADA	CHEMISTRY		
1993	ROBERT C. ROLEDA	PHYSICS		
1992	ERNELEA P. CAO	BIOLOGY		
1991	RONALD R. MATIAS	ZOOLOGY		
1990	CAESAR A. SALOMA	PHYSICS		
1989	IRENE M. VILLASEÑOR	CHEMISTRY		
1988	CHERRIE B. PASCUAL	CHEMISTRY		
1987	REBECCA S. PAREDES	CHEMISTRY		
1986	DANILO M. YANGA	PHYSICS		
*MATERIAL C CCIENCE AND ENCINEERING				

*MATERIALS SCIENCE AND ENGINEERING

THE COLLEGE OF SCIENCE OFFICIALS

GIOVANNI A. TAPANG, Ph.D.

Dean

EIZADORA T. YU, Ph.D.

Associate Dean for Mentoring, Academic Progress and Advancement

LILLIAN JENNIFER V. RODRIGUEZ, Ph.D.

Associate Dean for Student, Alumni and Public Affairs

RICKY B. NELLAS, Ph.D.

Associate Dean for Research, Innovation, Development and Enterprise

MARIAN P. ROQUE, Ph.D.

Associate Dean for Facilities and Resources Management

MA. NERISSA M. ABARA, Ph.D.

College of Secretary

VICTOR MANUEL R. ARICHETA, Ph.D.

Assistant College Secretary

JOHNROB Y. BANTANG, Ph.D.

Coordinator, Computational Science Research Center

MARIE ANTOINETTE D. VILLAFLOR, M.L.S.

Head Librarian, Science Library

HEADS OF DEGREE GRANTING INSTITUTES / PROGRAM

IAN KENDRICH C. FONTANILLA, Ph. D.

Director, Institute of Biology

LEN HERALD V. LIM, Ph. D.

Director, Institute of Chemistry

CHERRY L. RINGOR, Ph. D.

Director, Institute of Environmental Science and Meteorology

JOSE ERNIE LOPE, Ph. D

Director, Institute of Mathematics

ARTURO O. LLUISMA, Ph. D.

Acting Director, Marine Science Institute

MARIENETTE M. VEGA, Ph. D.

Coordinator, Materials Science and Engineering Program

NOELYNNA T. RAMOS, D.Sc.

Acting Director, National Institute of Geological Sciences

PIA D. BAGAMASBAD, Ph. D.

Director, National Institute of Molecular Biology and Biotechnology

WILSON O. GARCIA, Ph. D.

Director, National Institute Physics

HEADS OF NON-DEGREE GRANTING INSTITUTE / PROGRAM

ELMER S. ESTACIO, Ph. D.

Director, Natural Sciences Research Institute

RENE N. ROLLON, Ph.D.

Program Director, Science and Society Program

College Marshals

Institute of Biology

Dr. Ahmad Reza Mazahery
Dr. Carmela Española
Jordan Halili
Dr. Leilani Dacones-Sumabat
Dr. Lerrie Ann Ipulan-Colet
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PAMBANSANG AWIT

Bayang magiliw, Perlas ng Silanganan, Alab ng puso, sa dibdib mo'y buhay. Lupang Hinirang, Duyan ka ng magiting, Sa manlulupig, di ka pasisiil. Sa dagat at bundok, Sa simoy at sa langit mong bughaw, May dilag ang tula At awit sa paglayang minamahal. Ang kislap ng watawat mo'y Tagumpay na nagniningning, Ang bituin at araw niya Kailan pa ma'y di magdidilim. Lupa ng araw, ng luwalhati't pagsinta, Buhay ay langit sa piling mo; Aming ligaya, na pag may mang-aapi Ang mamatay ng dahil sa iyo

U.P. NAMING MAHAL

UP naming mahal
Pamantasang hirang
Ang tinig naming
Sana'y inyong dinggin
Malayong lupain,
Amin mang marating
Di rin magbabago ang damdamin
Di rin magbabago ang damdamin.

Luntian at pula
Sagisag magpakailanman
Ating pagdiwang
Bulwagan ng dangal
Humayo't itanghal
Giting at tapang
Mabuhay ang pag-asa ng bayan
Mabuhay ang pag-asa ng bayan

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