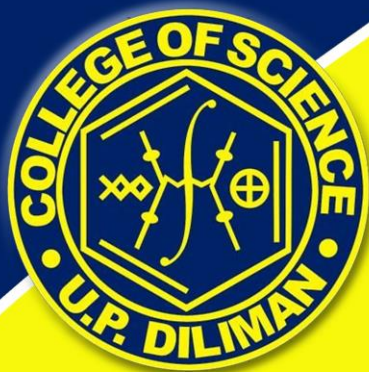


SPECIAL RECOGNITION PROGRAM

FOR THE
GRADUATING
CLASS OF
2021



JULY 24, 2021

PROGRAMME

- I. Academic Procession
- II. National Anthem
- III. Welcome Remarks **Dr. Giovanni A. Tapang**
Dean
- IV. Introduction of the Guest Speaker **Dr. Lillian Jennifer V. Rodriguez**
*Associate Dean
Student, Alumni and Public Affairs*
- V. Keynote Address **Mr. Abdulmari Toym de Leon Imao, Jr.**
*Visual Artist
Senior Lecturer, UP Diliman
College of Fine Arts*
- VI. Presentation of Token to the Guest Speaker
- VII. Presentation of PhD Graduates
- VIII. Presentation of Graduates **National Institute of Physics**
- IX. Intermission 1
- X. Presentation of Graduates **National Institute of Molecular Biology and Biotechnology**
Institute of Mathematics
- XI. Special Recognition of Retired Faculty and Staff
- XII. Intermission 2

XIII. Presentation of Graduates

**Materials Science and
Engineering Program**

Marine Science Institute

**National Institute of
Geological Sciences**

**Institute of Environmental
Science and Meteorology**

XIV. Intermission 3

XV. Presentation of Graduates

Institute of Chemistry

Institute of Biology

XVI. Response in behalf of the
2020-2021 MS/PhD Graduates

Damian Nale Dailisan
*Most Outstanding Ph.D.
Graduate*

XVII. Response in behalf of the
2019-2020 BS Graduates

XVIII. Closing Remarks

Dr. Eizadora T. Yu
*Associate Dean for Mentoring,
Academic Progress and
Advancement*

XIX. UP Naming Mahal

2020-2021 RECIPIENTS OF THE DEAN'S MEDALLION

**LETICIA SHAHANI AWARD FOR BEST
UNDERGRADUATE THESIS OR RESEARCH PAPER**

Applied Physics: Undergraduate Thesis:	<i>Ma. Janelle G. Manuel</i> "Folded transit photometry as an exoplanet detection method"
Adviser:	Dr. Nathaniel P. Hermosa II
Biology: Undergraduate Thesis:	<i>Ms. Carmela Maria Berba</i> "A Systematic Review of the Philippines' Biodiversity: Metadata Gaps, Taxonomic Biases, and Spatial Biases in DNA Barcode Data of Animal and Plant Taxa in the Context of Species Occurrence Data"
Adviser:	Dr. Ambrocio Melvin A. Matias
Chemistry: Undergraduate Thesis:	<i>Ms. Jaica Lynelle G. Paras</i> "Synthesis and Gelation Studies of Cyclohexane Bis-Urea Derivatives as Organogelators"
Adviser:	Dr. Monissa Paderes
Geology: Undergraduate Research Paper:	<i>Mr. Miguel Joven E. Villanueva</i> "Geology of Portions of Tanay, Baras, and Antipolo, Rizal"
Advisers:	Dr. Alyssa M. Peleo-Alampay, Ms. Melinda Aimee B. Jajalla, Ms. Regina Martha G. Lumongsod, Mr. Alec Benjamin G. Ramirez, Mr. Justrin Jorge R. Padre and Mr. Rainier P. Trinidad
Physics: Undergraduate Thesis:	<i>Mr. Roger F. Jamilarin, Jr.</i> "Generation of vortex beams by spiral silt using a digital micromirror device"
Adviser:	Dr. Nathaniel P. Hermosa II

CS EXCELLENCE AWARD
FOR OUTSTANDING B.S. GRADUATES

Applied Physics	Stephanie Nicole O. Go	<i>Summa Cum Laude</i>
Biology	Carmela Maria P. Berba	<i>Summa Cum Laude</i>
Chemistry	Jeanne Lorraine P. Amponin	
Geology	Dwyneth Jade L. Cañete	<i>Cum Laude</i>
Mathematics	Kenneth G. Shi	<i>Magna Cum Laude</i>
Molecular Biology	Gabrielle Marie L. Chungunco	<i>Summa Cum Laude</i>
Physics	Nathan Christopher L. Suelto	

EXCELLENCE IN B.S. STUDIES

Gabrielle Marie L. Chungunco *Summa Cum Laude*

MOST OUTSTANDING M.S. GRADUATE

Rodney Berdida Pino

B.S. Mathematics, Cebu Technological University, 2017

Master's Thesis "Baybayin Optical Recognition System using Support Vector Machine"

Co-Adviser Dr. Renier G. Mendoza, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Rachelle R. Sambayan, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

EDGARDO GOMEZ AWARD FOR
MOST OUTSTANDING Ph.D. GRADUATE

Damian Nale Dailisan

B.S., M.S. Physics, University of the Philippines, Diliman, 2015, 2017

Dissertation Title "Modeling Transport: Different Aspects of Urban Mobility Research"

Adviser Dr. May T. Lim, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

CANDIDATES FOR GRADUATION
NATIONAL INSTITUTE OF PHYSICS
DOCTOR OF PHILOSOPHY (PHYSICS)

As of Midyear 2020

Ritz Ann Paccarangan Aguilar

B.S. Applied Physics, University of the Philippines, Diliman, 2015, M.S. Physics,
University of the Philippines, Diliman, 2017

Dissertation Title "Adaptive Methods for Fourier Ghost Imaging:
Development and Applications"

Co-Adviser Dr. Maricor N. Soriano, Professor, National Institute of
Physics, College of Science, National Science Complex,
University of the Philippines, Diliman, Quezon City

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

John Paul Adubo Besagas

B.S. Physics, Polytechnic University of the Philippines, 2013, M.S. Physics,
University of the Philippines, Diliman, 2015

Dissertation Title "Quantum Measurement Models Exhibiting Exact
Decoherence and Exactly Emerging Objectivity Without an
Environment"

Adviser Dr. Eric A. Galapon, Professor, National Institute of
Physics, College of Science, National Science Complex,
University of the Philippines, Diliman, Quezon City

Maria Theresa Rivera Pulido

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

Dissertation Title "The Local Acceptance Model: A Comprehensive Tool to
Study Collective Decision-Making in Complex Networks"

Adviser Dr. Caesar A. Saloma, Professor, National Institute of
Physics, College of Science, National Science Complex,
University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2020-2021

Damian Nale Dailisan

B.S., M.S. Physics, University of the Philippines, Diliman, 2015, 2017

Dissertation Title "Modeling Transport: Different Aspects of Urban Mobility
Research"

Adviser Dr. May T. Lim, Professor, National Institute of Physics,
College of Science, National Science Complex, University
of the Philippines, Diliman, Quezon City

Rhenish C. Simon

B.S. Physics, Polytechnic University of the Philippines, 2009, M.S. Physics,
University of the Philippines, Diliman, 2014

Dissertation Title "Crossing Angle Measurement as Thin Film
Characterization Technique"

Adviser Dr. Nathaniel P. Hermosa II, Professor, National Institute
of Physics, College of Science, National Science Complex,
University of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2020-2021

Neris Dalumpines Ilano Sombillo

B.S. Physics for Teachers, Philippine Normal University, 2004, M.S. Physics,
University of the Philippines, Diliman, 2010

Dissertation Title "Non-refocusing Nuclear Magnetic Resonance Quantum
Information Processing"

Co-Adviser Dr. Ronald S. Banzon, Associate Professor, National
Institute of Physics, College of Science, National Science
Complex, University of the Philippines, Diliman, Quezon
City

Co-Adviser Dr. Cristine DLR. Villagonzalo, Professor, National
Institute of Physics, College of Science, National Science
Complex, University of the Philippines, Diliman, Quezon
City

INSTITUTE OF MATHEMATICS

DOCTOR OF PHILOSOPHY (MATHEMATICS)

As of Midyear 2020

Ramon Iñigo Dizon Marfil

B.S. Mathematics, University of the Philippines, Diliman, 2011, M.S. Applied
Mathematics, University of the Philippines, Diliman, 2015

Dissertation Title "On the Placing Probabilities and Expected Time Until
Ruin for the N -Tower Problem Using Recursions Based on
Multigraphs"

Adviser Dr. Fredegusto Guido P. David, Professor, Institute of
Mathematics, College of Science, National Science
Complex, University of the Philippines, Diliman, Quezon
City

As of First Semester, AY 2020-2021

Cherrylyn Peregrino Alota

B.S., M.S. Mathematics, University of San Carlos, 2000, 2009

Dissertation Title "Large Graph Limit of an Edge-Based SEIR Dynamics on a Static Random Network"

Adviser Dr. Carlene P. C. Pilar-Arceo, Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Jeanine Concepcion Hernandez Arias

B.S., M.S. Mathematics, University of the Philippines, Diliman, 2009, 2013

Dissertation Title "Similarity Isometries of Shifted Lattices and Point Packings"

Adviser Dr. Manuel Joseph C. Loquias, Associate Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Kai Brynne Mauricio Boydon

B.S., M.S. Mathematics, University of the Philippines, Diliman, 2010, 2014

Dissertation Title "Clifford Systems and Clifford Structures with their Canonical Associated 4-forms in Dimensions 8 and 16"

Adviser Dr. Jose Maria P. Balmaceda, Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Paolo Piccinni, Professor, Department of Mathematics, Sapienza University of Rome, Italy

MATERIALS SCIENCE AND ENGINEERING PROGRAM

DOCTOR OF PHILOSOPHY (MATERIALS SCIENCE AND ENGINEERING)

As of Midyear 2020

Maricar Manalaysay Rosete

B.S. Materials Engineering, University of the Philippines, Diliman, 2013, M.S.

Materials Science and Engineering, University of the Philippines, Diliman, 2015

Dissertation Title "Stabilization of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ in Ethanol with Supporting Electrolytes for the Enhancement of Electrophoretically Deposited Films"

Adviser Dr. Roland V. Sarmago, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

INSTITUTE OF ENVIRONMENTAL SCIENCE AND METEOROLOGY

DOCTOR OF PHILOSOPHY (ENVIRONMENTAL SCIENCE)

As of First Semester, AY 2020-2021

Maria Carmela Flores Quinto Capule

B.S. Chemistry, Polytechnic University of the Philippines, 1996, M.S. Education, Pampanga Agricultural College, 2001

Dissertation Title "Decades of Leaching PCBs: Spatial Dispersion, Transformation and Plant Uptake from Soil"

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. Mylene G. Cayetano, Associate Professor, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Fernan Tangonan Fiegalan

B.S. Agriculture, Central Luzon State University, 2002, M.S. Soil Science, Central Luzon State University, 2005, M.S. Environmental Science, University of the Philippines, Diliman, 2013

Dissertation Title "Modeling the Dynamics of Soil Organic Matter Accumulation in Tilled and Non-tilled Rice and Mango Agroecosystems"

Adviser Dr. Cherry L. Ringor, Professor, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Tolentino B. Moya, Professorial Lecturer, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Joseph Dominic Herbano Palermo

B.S. Biology, Ateneo de Zamboanga University, 1999, M.S. Environmental Science, University of the Philippines, Diliman, 2006

Dissertation Title "Trophic Ecology of Sardines: *Sardinella lemuru* Feeding Strategies, Vulnerability to Marine Microplastic Pollution, and Endoparasitism in Northern Mindanao"

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

INSTITUTE OF BIOLOGY

DOCTOR OF PHILOSOPHY (BIOLOGY)

As of Second Semester, AY 2019-2020

Norielyn Niez Abalos

B.S. Zoology, Mindanao State University-Marawi City, 2005, M.S. Biology, University of San Carlos-Talamban Campus, 2012

Dissertation Title "Cytotoxicity of Stem Bark and Leaf Extracts and Fractions from *Aglaia loheri* Merr. (Meliaceae) Against Selected Human Cancer Cell Lines"

Adviser Dr. Sonia D. Jacinto, Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Aris A. Reginaldo

B.S. Biology, University of the Philippines, Baguio, 2006, M.S. Zoology, University of the Philippines, Los Baños, 2011

Dissertation Title "Structure of Small Non-Flying Mammals in Disturbed Habitats in the Central Cordillera, Northern Luzon, Philippines"

Adviser Dr. Carmela P. Española, Assistant Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Lawrence R. Heaney, Curator, Field Museum of Natural History, Chicago, Illinois, United States of America

CANDIDATES FOR GRADUATION

NATIONAL INSTITUTE OF PHYSICS

MASTER OF SCIENCE (PHYSICS)

As of Second Semester, AY 2016-2017

Bienvenido Masirin Butanas, Jr.

B.S., M.S. Physics, Mindanao State University-Iligan Institute of Technology, 2008, 2010

As of Second Semester, AY 2019-2020

Cleofe Dennielle Padin Ayang-Ang

B.S. Applied Physics, University of the Philippines, Diliman, 2018

Master's Thesis "Critical Schmidt Gap in a Variable-Range Kitaev Chain"
Adviser Dr. Francis Norman C. Paraan, Associate Professor,
National Institute of Physics, College of Science, National
Science Complex, University of the Philippines, Diliman,
Quezon City

As of Midyear 2020

Martin Francis Diaz Bartolome

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

Joshua Carlo Aparicio Casapao

B.S. Physics, University of the Philippines, Diliman, 2018

Master's Thesis "Locally Decomposable Entanglement Witness with
Inherent Partial Ordering"
Adviser Dr. Eric A. Galapon, Professor, National Institute of
Physics, College of Science, National Science Complex,
University of the Philippines, Diliman, Quezon City

Ralph Adrian Espiritusanto Farrales

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

Master's Thesis "Conjugates to One Particle Hamiltonians in 1-Dimension
in Differential Form"
Adviser Dr. Eric A. Galapon, Professor, National Institute of
Physics, College of Science, National Science Complex,
University of the Philippines, Diliman, Quezon City

Jeric Vuelta Garrido

B.S. Physics, University of the Philippines, Diliman, 2018

Master's Thesis "Trajectory Design, Analysis and Optimization of a Solar Sail Spacecraft"

Adviser Dr. Jose Perico H. Esguerra, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

John Jaykel Ponte Magadan

B.S. Physics, University of the Philippines, Diliman, 2018

Master's Thesis "Time of Arrival Operators for Parity-Time Symmetric Quantum Mechanics"

Adviser Dr. Eric A. Galapon, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Kimver Louie Siu Nuñez

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

Jhon Delo Liwanan Procurato

B.S. Physics, Central Mindanao University, 2017

Master's Thesis "Direct Photo Emission from a Charged Particle Orbiting a Spherically Symmetric Black Hole"

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

Kenneth Jhon Mora Remo

B.S. Physics, Polytechnic University of the Philippines, 2017

Master's Thesis "Representations of the Finite Part of a Divergent Integral and its Applications"

Adviser Dr. Eric A. Galapon, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Mark Ivan Gabo Ugalino

B.S. Physics, University of the Philippines, Diliman, 2018

Master's Thesis "Dynamical Friction Effects on Circular Orbits Immersed in a Finite Gaseous Background"

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

Jam Benneth Gozun Wong

B.S. Applied Physics, University of the Philippines, Manila, 2018

Master's Thesis "Essential Self-Adjointness of the Bender-Dunne Basis Operators"

Adviser Dr. Eric A. Galapon, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2020-2021

Niel Laurent Cabilin Caidic

B.S. Physics, University of the Philippines, Diliman, 2009

Master's Thesis "Stochastic Behavior of Two Unequally Biased Brownian Particles with Internal Resetting"

Adviser Dr. Jose Perico H. Esguerra, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Carlo Vincenzo Genuino Dajac

B.S. Physics, Nanyang Technological University, Singapore, 2010

Master's Thesis "Pedestrian Traffic in North Avenue MRT Platform During Evacuation"

Adviser Dr. Jose Perico H. Esguerra, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Robertson Caliwan Esperanza

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

Master's Thesis "One-Dimensional Hubbard Chain with Ising-Like Nearest-Neighbor Interaction: Clarifying the Ground State and Its Entanglement Content"

Adviser Dr. Francis Norman C. Paraan, Associate Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Ivan Misola Fenis

B.S. Applied Physics, University of the Philippines, Diliman, 2018

Master's Thesis "Interplay of Behavior and Traffic Dynamics at Multiple Paired U-Turn Slots"

Adviser Dr. May T. Lim, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Anthony Paul Noquillo Fox

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

Master's Thesis "Optical Feedback Interferometry by Amplitude Division"

Adviser Dr. Caesar A. Saloma, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Wilbur Hidalgo Galarion Jr.

B.S. Physics, University of the Philippines, Baguio, 2013

Master's Thesis "Transient and Steady State Blood Droplet Stain Patterns on Fabric with Backing Material"

Adviser Dr. Maricor N. Soriano, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Hazel Glaine Labasan Sales

B.S. Applied Physics, University of the Philippines, Los Baños, 2017

Master's Thesis "Information Flow in Dynamic Networks"

Adviser Dr. Giovanni A. Tapang, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Ranzivelle Marianne Roxas-Villanueva, Professor, Physics Division, Institute of Mathematical Sciences and Physics, University of the Philippines Los Baños, Laguna

As of Second Semester, AY 2020-2021

Gabriel Sedrick Sy Alkuino

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

Master's Thesis "Dynamics of Extendable Articulated Bodies on Curved Surfaces"

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

Justin Itay Alvarez

B.S. Physics, University of the Philippines, Diliman, 2013

Master's Thesis "Boosted Decision Tree-Driven Cut-based Analysis for Event Recognition in Stealth SUSY decays for $\sqrt{s} = 13$ TeV"

Adviser Dr. Jose Perico H. Esguerra, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Marvin M. Flores, Assistant Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Art Marcelo II Eugenio Andallo

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

Master's Thesis "Linear vs. Nonlinear Zeta Function Regularization and its Applications to the Casimir Effect"

Adviser Dr. Eric A. Galapon, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Ramon Jose Cavatana Bagunu

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

Master's Thesis "Quantization of the Hamilton Equations of Motion and Solutions to the Time-Energy Canonical Commutation Relation"

Adviser Dr. Eric A. Galapon, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Joshua Beethoven Pangan Bautista

B.S. Mechanical Engineering, University of the Philippines, Diliman, 2017

Thesis "A Dynamical Systems Approach to Studying the Structure of Anisotropic Compact Objects"

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

Karlo Nepomuceno De Leon

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

Master's Thesis "Geometry of Thermodynamics Systems: Geodesics, Curvature, Phase Boundaries, and the Widom Line"

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

Austin Santos Dizon

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

Master's Thesis "Time of Arrival Operators for Singular Potentials"

Adviser Dr. Eric A. Galapon, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Jobeth Gazmen Martecio

B.S. Physics, University of the Philippines, Baguio, 2016

Master's Thesis "Contagion Dynamics on a Vicsek Model of Mobile Swarm of Agents"

Adviser Dr. Johnrob Y. Bantang, Associate Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Mark Jeremy Gacias Narag

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

Master's Thesis "Unraveling the Relationship: Discovering Artistic Influences of Painters Using Convolutional Neural Network"

Adviser Dr. Maricor N. Soriano, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Miguel Lao Revilla

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

Master's Thesis "Detecting Exoplanets in Face-on Orbits Using Vortex Beams and Quadrant Detection"

Adviser Dr. Nathaniel P. Hermosa II, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Leonarc Michelle Santos

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

Master's Thesis "Hyperdifferential Operator Representation of Polynomials and Rescalability"

Adviser Dr. Eric A. Galapon, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Lloyd Llana Villanueva

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

Master's Thesis "Reduction Formulas of the Kampé de Fériet Function Arising from the Method of Finite-part Integration"

Adviser Dr. Eric A. Galapon, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

MASTER OF ARTS (PHYSICS)

As of Midyear 2020

Lawrence Federizon Pascual

B.S. and B.A. Secondary Education, Ateneo de Naga University, 2014

As of First Semester, AY 2020-2021

Erwin Addatu Villegas

B.S. Physics, University of the Philippines, Diliman, 2006

BACHELOR OF SCIENCE IN APPLIED PHYSICS

As of Second Semester, 2019-2020

A. (Instrumentation Physics)

Kelvin B. Bartilad

Undergraduate Thesis
Adviser

Cum Laude

“Finding Urban Commute Patterns using Bike Share Data”
May T. Lim, Ph.D.

Jacob M. Gomez

Undergraduate Thesis
Adviser

“Classification and Characterization of the Resulting
Fragments of Two Colliding Dust Clusters”
Francis Norman C. Paraan, Ph.D.

Ares Amable N. Parales

Undergraduate Thesis
Adviser

“Generating and Analyzing Intensity Profiles of Cost
Effective Single Slits and Double Slits using a 650nm
Laser Pointer”
Wilson O. Garcia, Ph.D.

B. (Materials Physics)

Kint Ynnos B. Llevares

Undergraduate Thesis
Adviser

“Chemical Solution Deposition as a Viable Way to
Synthesize Strontium-Doped Lanthanum Manganites using
Metal Acetates as Precursor Materials”
Roland V. Sarmago, Ph.D.

As of First Semester, 2020-2021

A. (*Instrumentation Physics*)

Jairus Carlo F. Calpatura

Undergraduate Thesis “Intrinsic Property Dependence of the Thermoelectric Figure of Merit in Solid State Materials”
Adviser Cristine D.L.R. Villagonzalo, Dr. rer. nat.

Patricia B. Javar

Undergraduate Thesis “Activation of Carbon Cloth for Supercapacitor Applications”
Adviser Armando S. Somintac, Ph.D.

Vince Paul P. Juguilon

Undergraduate Thesis “Design of an Absolute Spectral Emission Power Distribution Measurement System in the UV-VIS-NIR Region Using an Integrating Sphere Head and Spectrometer”
Adviser Elmer S. Estacio, Ph.D.

Ardell Justin B. Vasquez

Undergraduate Thesis “CO₂ Detection using Thermopile-Based Nondispersive Infrared Technique”
Adviser Elmer S. Estacio, Ph.D.

As of Second Semester, 2020-2021

A. (*Instrumentation Physics*)

Jemima Bian T. Anila

Undergraduate Thesis “Impact Velocity Estimation of Ink Drop from Stain Pattern”
Adviser Maricor N. Soriano, Ph.D.

Raphael Angelo D. Dimacali

Undergraduate Thesis “Generating Images of Numbers from Text with a Generative Adversarial Network”
Adviser Francis Norman C. Paraan, Ph.D.

Maria Alena A. Edora

Undergraduate Thesis *Cum Laude* “Quantifying the Performance of a Sparse Autoencoder in Detecting Network Anomalies”
Adviser Francis Norman C. Paraan, Ph.D.

- Jersey Dianne T. Ganding*** ***Cum Laude***
 Undergraduate Thesis “Critical Behavior and Cluster Geometry in an Ising Model
 with Changing Lattice Dimensionality”
 Adviser Ronald S. Banzon, Ph.D.
- Gelli Mae P. Gloria*** ***Cum Laude***
 Undergraduate Thesis “Model for Phase Retrieval using Partially Coherent
 Illumination”
 Adviser Percival F. Almoro, Ph.D.
- Kit Laurence L. Guial***
 Undergraduate Thesis “Transient Dynamical Properties of an M/M/1 Queue
 System at Different Traffic Intensities”
 Adviser Caesar A. Saloma, Ph.D.
 Co-Adviser Johnrob Y. Bantang, Ph.D.
- Ma. Janelle G. Manuel*** ***Cum Laude***
 Undergraduate Thesis “Folded Transit Photometry as an Exoplanet Detection
 Method”
 Adviser Nathaniel P. Hermosa II, Ph.D.
- Edrien Dominick D. Ofina***
 Undergraduate Thesis “Fourier Transform Profilometry using a Smartphone-Lens
 Projector Setup”
 Adviser Nathaniel P. Hermosa II, Ph.D.
- Carl Justin B. Palpal-latoc*** ***Cum Laude***
 Undergraduate Thesis “Evolution and Perturbation of Delayed Universes”
 Adviser Michael Francis Ian G. Vega II, Ph.D.
- Aaron Paul D. Ramos***
 Undergraduate Thesis “Schmidt Gap in the 1D Ising Model with Dzyaloshinsky-
 Moriya Interaction”
 Adviser Francis Norman C. Paraan, Ph.D.
- Bienica Yzabelle G. Tinte*** ***Cum Laude***
 Undergraduate Thesis “Pulsed Laser Deposition: A Review”
 Adviser Wilson O. Garcia, Ph.D.
- Jireh J. Vera Cruz***
 Undergraduate Thesis “3D Dead Reckoning using Inertial and Pressure Sensors”
 Adviser Maricor N. Soriano, Ph.D.

B. (Materials Physics)

Stephanie Nicole O. Go

Undergraduate Thesis

Adviser

Summa Cum Laude

“Exploration Properties of a Biased Evanescent Random Walk on an N-Cycle”

Jose Perico H. Esguerra, Ph.D.

Tim Jeff M. Rodriguez

Undergraduate Thesis

Adviser

“Characterizing Localized Surface Plasmon Resonance of a Gold Nanoparticle in Glass-Matrix Composites”

Cristine DLR. Villagonzalo, Dr. rer.nat.

BACHELOR OF SCIENCE IN PHYSICS

As of Second Semester, 2019-2020

Lourdes Nicole F. Dela Rosa

Undergraduate Thesis

Co-Adviser

Co-Adviser

“Investigation of the THz Emission Characteristics of an LT-GaAs Photoconductive Antenna using Equivalent Circuit Model”

Elmer S. Estacio, Ph.D.

Alexander E. Delos Reyes. Ph.D.

John Bert D. Lazaro

Undergraduate Thesis

Adviser

Cum Laude

“Motion of a Charged Particle with Anisotropic Mass in Uniform Electric and Magnetic Fields”

Jose Perico H. Esguerra, Ph.D.

As of First Semester, 2020-2021

Anselmo Jose C. Ledesma

Undergraduate Thesis

Adviser

“Reflection THz-TDS of ELO GaAs on Acetate”

Armando S. Somintac, Ph.D.

Joshua Cesar M. Lorenzo

Undergraduate Thesis

Adviser

“Formation and Self-Healing of Epicycloid and Hypocycloic Shaped”

Nathaniel P. Hermosa II, Ph.D.

Clark Angelo P. Urzo

Undergraduate Thesis

Adviser

“Modelling Spherically Symmetric Stars using a Chebyshev-Basis Spectral Method”

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

As of Second Semester, 2020-2021

Roger F. Jamilarin, Jr.

Undergraduate Thesis "Generation of Vortex Beams by Spiral Slits using a Digital Micromirror Device"
Adviser Nathaniel P. Hermosa II, Ph.D.

Marc Lesney D. Maddumba

Undergraduate Thesis "Investigating COVID-19 Vaccination Effectiveness in Metro Manila using SIR Epidemic Model"
Adviser Ronald S. Banzon

Jaythan Edrick S. Salazar

Undergraduate Thesis "The Traversability of Time Travel Trajectories"
Adviser Michael Francis Ian G. Vega II, Ph.D.

Nathan Christopher L. Suelto

Undergraduate Thesis "Optimization of Initial Guess Phase for Enhanced Multiple Intensity Phase Retrieval"
Adviser Percival F. Almoro, Ph.D.

Allan Christopher C. Zeta

Undergraduate Thesis "Representations of Certain Finite-Part Integrals via Integration by Parts"
Adviser Eric A. Galapon, Ph.D.

NATIONAL INSTITUTE OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY

MASTER OF SCIENCE (MOLECULAR BIOLOGY AND BIOTECHNOLOGY)

As of Midyear 2020

Zildjian Gonzales Acyatan

B.S. Molecular Biology and Biotechnology, University of the Philippines, Diliman, 2017

Master's Thesis "Isolation, Structure Elucidation, and Biological Evaluation of Neuroactive Compound(s) from Mollusks-Associated Microorganisms"
Adviser Dr. Pia D. Bagamasbad, Associate Professor, National Institute of Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Lilibeth A. Salvador-Reyes, Associate Professor,
Marine Science Institute, College of Science, National
Science Complex, University of the Philippines, Diliman,
Quezon City

Romie Angelo Granja Azur

B.S. Molecular Biology and Biotechnology, University of the Philippines, Diliman,
2017

Master's Thesis "Luminescence-Based Drug Screen for Novel Androgen
Receptor Antagonists for Prostate Cancer Therapy"

Adviser Dr. Pia D. Bagamasbad, Associate 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 2020-2021

Kim Ivan Alvarez Abesamis

B.S. Molecular Biology and Biotechnology, University of the Philippines, Diliman,
2015

Master's Thesis "Investigating the Effect of a Non-conservative Mutation
(G273D) on Integrin Alpha 6-Beta 4 Binding Interactions"

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

Irish Coleen Angelo Asin

B.S. Food Technology, University of the Philippines, Los Baños, 2013

Master's Thesis "Metagenomic Virome Analysis of *Aedes aegypti* and
Aedes albopictus from Selected Sites in Los Baños,
Laguna, Philippines"

Adviser Dr. Ma. Anita M. Bautista, Associate Professor, National
Institute of Molecular Biology and Biotechnology, College
of Science, National Science Complex, University of the
Philippines, Diliman, Quezon City

Jose Antonio Ma. Geraldez Garrido

B.S. Molecular Biology and Biotechnology, University of the Philippines, Diliman,
2017

Master's Thesis "Phenotypic Characterization of the Novel PTEN Mutants
Q171R and Y65S 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

Rhosener Bhea Lu Koh

B.S. Management, Ateneo de Manila University, 2014

Master's Thesis "Molecular Characterization of GIBBERELLIN INSENSITIVE DWARF1 (GID1) Receptors in Abaca (*Musa textilis Née*)"

Adviser Dr. Vermando M. Aquino, Professor, National Institute of Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Adria Gabrielle De Jesus Lao

B.S. Molecular Biology and Biotechnology, University of the Philippines, Diliman, 2016

Master's Thesis "Viral Metagenome Sequencing and Analysis in Mosquito Species *Armigeres subalbatus* and *Mansonia uniformis* from the Mount Makiling Forest Reserve, Laguna, Philippines"

Adviser Dr. Ma. Anita M. Bautista, Associate Professor, National Institute of Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Adrian Paul Sy Tan

B.S. Biochemistry, University of the Philippines, Manila, 2014

Master's Thesis "Amplification, Cloning and Expression of Alkane 1-Monooxygenase and Catechol 1,2-Dioxygenase Genes from *Acinetobacter baumannii* Strain OS1, S341 and S354"

Adviser Dr. Cynthia T. Hedreyda, Professor, National Institute of Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Vermando M. Aquino, 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 2020-2021

Pauline Nicole Ong Dela Peña

B.S Molecular Biology and Biotechnology, University of the Philippines, Diliman, 2012

Master's Thesis "Global Profiling of Genes Expressed in Silk Glands of Philippine-reared Mulberry Silkworm (*Bombyx mori*)"
Adviser Dr. Ma. Anita M. Bautista, Associate Professor, National Institute of Molecular Biology and Biotechnology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Kalle Ponce Pardilla

B.S. Molecular Biology and Biotechnology, University of the Philippines, Diliman, 2016

Master's Thesis "DNA Shuffling of Endoglucanase Gene from Four *Bacillus* Isolates for Enzyme Improvement"
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

BACHELOR OF SCIENCE IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY

As of Second Semester, 2019-2020

Zyriae R. Ganapin

Undergraduate Thesis "*In Silico* Screening of SARS-CoV-2 Spike Glycoprotein for T-Cell Immunodominant Epitopes"

Adviser Denise Noelle M. Bascos, Ph.D.

As of First Semester, 2020-2021

Renato Jacinto Q. Mantaring

Undergraduate Thesis "Mosquito Virome Sequencing Analysis using Three Bioinformatics Programs"

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

Ethan Joshua N. Ong

Undergraduate Thesis "Investigation on the Effects of E-Cigarette Smoke on A549 Lung Adenocarcinoma Cells"

Adviser Reynaldo L. Garcia, Ph.D., MPhil (*cantab*)

Elcid Aaron R. Pangilinan

Undergraduate Thesis “Whole Genome Sequence Assembly and Characterization of Secondary Metabolism Biosynthetic Gene Clusters of Two *Streptomyces* Isolates”
Adviser Ma. Anita M. Bautista, Ph.D.

As of Second Semester, 2020-2021

Jericho B. Bascos

Cum Laude

Undergraduate Thesis “Development of *Vibrio natriegens* CCUG 16373 as a Microbial Chassis and *in silico* Analysis of the Druantia Antiphage System”
Adviser Ron Leonard V. Dy, Ph.D.

Miguel Antonio M. Cañiza

Undergraduate Thesis “An Investigation of a Novel Prokaryotic Argonaute from the Haloalkaliphilic Bacterium *Exiguobacterium* AB2”
Adviser Ron Leonard V. Dy, Ph.D.

Gabrielle Marie L. Chungunco* *Summa Cum Laude

Undergraduate Thesis “*De Novo* Transcriptome Assembly and Differential Gene Expression Analysis of Stingless Bee (*Tetragonula sp.*)”
Adviser Ma. Anita M. Bautista, Ph.D.

Kate Allison S. Co

Summa Cum Laude

Undergraduate Thesis “Mutations in the 3'UTR of EGFR Pathway Genes of Filipino Young-Onset Sporadic CRC Patients: Effects on microRNA Access and Binding Affinity”
Adviser Reynaldo L. Garcia, Ph.D., M.Phil. (*cantab*)

Brian Voltaire C. Cutaran

Undergraduate Thesis “DNA Barcoding of Green Microalgae using *ITS*, *18S* rDNA and *V4* Region”
Adviser Wilberto D. Monotilla, Ph.D.
Co-Adviser Libertine Rose Sanchez, Ph.D.

Rose Marjorie G. Esguerra

Undergraduate Thesis “Sequence Analysis of Serine Alkaline Protease and Phytase from Local *Bacillus spp.* Isolates”
Adviser Vermando M. Aquino, Ph.D.

Mariko Isabelle P. Galvez

Cum Laude

Undergraduate Thesis “*In silico* Analysis of the Novel RRAS Mutants R78W and E63D and Cloning of the Novel MEK1 Mutant E285D Identified from Filipino Young-Onset Sporadic Colorectal

- Adviser Cancer Patients”
Reynaldo L. Garcia, Ph.D., M.Phil. (*cantab*)
- Mae Kimberly C. Gattoc** *Cum Laude*
Undergraduate Thesis “Analysis of Sexual Dimorphism in Immune Responses of BALB/c Mice to *pfMSP-1* Block 2”
Adviser Denise Noelle M. Bascos, Ph.D.
- Kim Denyse J. Hao Lin** *Magna Cum Laude*
Undergraduate Thesis “Gene Mining and Analysis of the JAZ and CO11 Protein Families in Abaca (*Musa textilis* Née var. Abuab)”
Adviser Vermando M. Aquino, Ph.D.
- Karen Grace E. Joson** *Cum Laude*
Undergraduate Thesis “Transcriptome Mining and Homology Modeling of Putative TIR-Binding Proteins in *Mesobiotus philippinicus*”
Adviser Denise Noelle M. Bascos, Ph.D.
- Janica A. Lising** *Cum Laude*
Undergraduate Thesis “*In silico* Analysis of the Wadjet System from *Exiguobacterium* sp. AB2”
Adviser Ron Leonard V. Dy, Ph.D.
- Sylvianna G. Manalo**
Undergraduate Thesis “A Meta-Analysis of EGFR Downstream Targets and Glucocorticoid-Regulated Genes to Elucidate the Glucocorticoid Therapy Paradox in Breast Cancer”
Adviser Pia D. Bagamasbad, Ph.D.
- 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.
- Jean Paulene A. Rodil**
Undergraduate Thesis “Computational Analysis of Predominant Integrin Subunits in Mesenchymal Tissues”
Adviser Neil Andrew D. Bascos, Ph.D.
- Franco Guillermo S. Rondain** *Cum Laude*
Undergraduate Thesis “*In Silico* Mining and Analysis of Photoperiodism Gene CONSTANS and Flowering Response Gene FLOWERING

Adviser LOCUS T in Abaca (*Musa textilis* Née var. Abuab)
Vermando M. Aquino, Ph.D.

INSTITUTE OF MATHEMATICS

MASTER OF SCIENCE (APPLIED MATHEMATICS)

As of Midyear 2020

Donald Jay Mari Bertulfo

AB Economics/AB Psychology, Ateneo de Manila University, 2015

Master's Thesis "A Machine Learning Approach to Narrative Retrieval in Economic News: The Case of Oil Price Uncertainty"

Co-Adviser Dr. Rachele R. Sambayan, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Fredegusto Guido P. David, Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Jcob Callueng Malaguit

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

Master's Thesis "Reaction-Diffusion Modelling of Rice Black Bug (*Scotinophara sp.*) Population in a Rice Field with Biocontrol"

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

Co-Adviser Dr. May Anne E. Mata, Associate Professor, Department of Mathematics, Physics and Computer Science, College of Science and Mathematics, University of the Philippines, Mindanao

Jayrah Bena Endaya Riñon

B.S. Mathematics, University of the Philippines, Diliman, 2017

Master's Thesis "A Mathematical Model and Optimal Control of Schistosomiasis in Agusan del Sur, Philippines"

Adviser Dr. Victoria May P. Mendoza, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Renier G. Mendoza, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City
As of First Semester, AY 2020-2021

Lhichel Joyce Corpuz Aytona

B.S. Mathematics, University of the Philippines, Diliman, 2017

Master's Thesis "Predicting Philippine Stock Market through Technical and Sentiment Analysis using Recurrent Neural Networks with Long Short-Term Memory"

Adviser Dr. Fredegusto Guido P. David, Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Rizzalene Montero Detosil

B.S. Mathematics, Ateneo de Manila University, 2014

Master's Thesis "The Carhart Four Factor Model Applied to Philippine Common Stocks from 2004 to 2017"

Adviser Dr. Jasmin-Mae S. Luy, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Rey Audie Salazar Escosio

B.S. Applied Physics, University of the Philippines, Diliman, 2018

Master's Thesis "A Perturbed Accelerated Gradient Descent Algorithm Using an n -Dimensional Golden Section Search Method"

Adviser Dr. Renier G. Mendoza, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Leah Mei Charisse Gomez Manongas

B.S. Mathematics, University of the Philippines, Diliman, 2018

Master's Thesis "Emergency Shelter Selection Models with Modification on Transferability and Evacuation Distance Minimization"

Adviser Dr. Marrick C. Neri, Associate Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2020-2021

Hanna Rhae Lyssa Dugang Improso

B.S. Mathematics, University of the Philippines, Los Baños, 2017

Master's Thesis "Forecasting Philippine Financial Time Series Data Using Weighted Support Vector Regression Based on Quantum Finance Model"

Adviser Dr. Rachele R. Sambayan, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Rodney Berdida Pino

B.S. Mathematics, Cebu Technological University, 2017

Master's Thesis "Baybayin Optical Recognition System using Support Vector Machine"

Co-Adviser Dr. Renier G. Mendoza, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Rachele R. Sambayan, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

MASTER OF SCIENCE (MATHEMATICS)

As of Midyear 2020

Jeffrey Ignacio Alvarina

B.S. Mathematics, University of the Philippines, Diliman, 2015

Master's Thesis "The Group of Primitive Almost-Pythagorean Triples over a Number Field"

Adviser Dr. Jerome T. Dimabayao, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Yuria Madrigal Hojo

B.S. Mathematics, University of the Philippines, Diliman, 2018

Master's Thesis "On Certain Graphs on the Dicyclic Group"

Adviser Dr. Jose Maria P. Balmaceda, Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2020-2021

Nathanael Joshua Ang Balete

B.S. Statistics, University of the Philippines, Diliman, 2018

Master's Thesis "Invariant Measures of 4-fold Rotational Beta Transformations"

Adviser Dr. Jonathan V. Caalim, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Anjelo Gabriel Rivera Cruz

B.S. Mathematics, University of the Philippines, Diliman, 2018

Master's Thesis "Time-Frequency Analysis for Functions over Lattices and Crystallographic Point Packings"

Co-Adviser Dr. Manuel Joseph C. Loquias, Associate Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Gino Angelo M. Velasco, Associate Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Jaybee Cervantes Penaflor

B.S. Electronics Communication Engineering, FEATI University, 2002

Master's Thesis "On the Existence of Minimal Surfaces with Triangular Skeletons in S^3 "

Adviser Dr. Dennis T. Leyson, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2020-2021

Nicole Joy Padua Datu

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

Master's Thesis "On Nil Clean and q -Nil Clean Matrix Rings"

Adviser Dr. Jose Maria P. Balmaceda, Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Homer Franz Calvario De Vera

B.S. Mathematics, University of the Philippines, Diliman, 2017

Master's Thesis "Quotient-Complete Arc-Transitive Graphs Associated with the General Semilinear Group of Degree One"

Adviser Dr. Maria Carmen V. Amarra, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Eloise Pepito Misa

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

Master's Thesis "The Algebra Generated by Nilpotent Elements 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 City

Nathaniel Fodulla Nollen

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

Master's Thesis "On the Periodicity of (α, β) -expansions and Quaternionic Rotational Beta Expansions"

Adviser Dr. Jonathan V. Caalim, Assistant Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Jomar Kevin De Guzman Sta. Ana

B.S. Mathematics, University of the Philippines, Diliman, 2013

Master's Thesis "Sums of H -selfadjoint, H -skewadjoint, and H -unitary Matrices"

Adviser Dr. Agnes Clotilde T. Paras, Professor, Institute of Mathematics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

MASTER OF ARTS (MATHEMATICS)

As of Second Semester, AY 2019-2020

Mark Madredio Ponce

B.S. Mathematics, Southern Luzon State University, 2014

As of First Semester, AY 2020-2021

Jan Marcel Tolentino Manrique

B.S. Mathematics, Polytechnic University of the Philippines, 2013

Second Semester, AY 2020-2021

Katherine Diane Tan Dela Cruz

B. Secondary Education, Grace Christian College, 2014

Michael Erwin Tanangonan Legarse

Bachelor of Secondary Education, University of Santo Tomas, 2014

Kwin Arseli Perillo Maglanque

B.S. Mathematics for Teachers, Pamantasang Normal ng Pilipinas, 2012

PROFESSIONAL MASTERS IN APPLIED MATHEMATICS

As of Second Semester, AY 2020-2021

Joshua Romblon Arienda

B.S. Mathematics, University of the Philippines, Diliman, 2018

Jim Dominic Magsino Culanding

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

Nathaniel De Leon

B.S. Applied Mathematics, Polytechnic University of the Philippines, 2018

Jude Martin Ballesteros Grozen

B.S. Applied Mathematics, West Visayas State University, 2017

Edward Jenned Manicad Lumidao

B.S. Mathematics, University of the Philippines, Diliman, 2010

Rosa Edilaine Aracap Suganob

B.S. Mathematics, University of the Philippines, Baguio, 2013

BACHELOR OF SCIENCE IN MATHEMATICS

As of Second Semester, 2019-2020

Joaquin G. de Joya

Undergraduate Thesis

“On the Development of a Qualitative Mathematical Model for Bipolar Disorder”

Adviser

Aurelio A. De Los Reyes V, Dr. rer. nat.

As of Midyear 2020

Phoebe H. Furagganan

Undergraduate Thesis

“On Edge-to-Edge Tilings of the Plane by Convex Pentagons”

Adviser

Joseph Ray Clarence G. Damasco, Ph.D.

As of Second Semester, 2020-2021

Luis Salvador R. Diy

Undergraduate Thesis

Adviser

Magna Cum Laude

“Heron Triangles and Elliptic Curves”

Jerome T. Dimabayao, Ph.D.

John Alfred V. Paragas

Undergraduate Thesis

Adviser

“On the Whale Optimization Algorithm”

Arriane Crystal T. Velasco, Ph.D.

Wylie Thomas G. Pe

Undergraduate Thesis

Adviser

“On the Distribution of Primes in the Second Euclid-Mullin Sequence”

Victor Manuel R. Aricheta, Ph.D.

Arthur Jim C. Pecaso

Undergraduate Thesis

Adviser

“Data Graduation using Improved Multi-Operator Differential Evolution (IMODE) Algorithm”

Renier G. Mendoza, Ph.D.

Kenneth G. Shi

Undergraduate Thesis

Adviser

Magna Cum Laude

“Continued Fractions of Some Quadratic Irrationals and Rationals with Perturbations”

Jonathan V. Caalim, Ph.D.

MATERIALS SCIENCE AND ENGINEERING PROGRAM

MASTER OF SCIENCE (MATERIALS SCIENCE AND ENGINEERING)

As of Midyear 2020

Joven Paolo Dulay Angeles

B.S. Physics, University of the Philippines, Baguio, 2015

Master's Thesis "Correlation of the Extinction Spectra and SERS Enhancement Factor of Gold Nanostar-Graphene Substrates"

Adviser Dr. Marienette M. Vega, Associate Professor, Material Science and Engineering Program, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Gil Felicisimo Soto Cabrera

B.S. Chemistry, Central Luzon State University, 2016

Master's Thesis "Synthesis and Ultraviolet-Visible Spectroscopy Studies of Gold@Graphene Oxide Nanocomposites"

Adviser Dr. Marienette M. Vega, Associate Professor, Material Science and Engineering Program, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2020-2021

Rogie Maghinay Madula

B.S. Physics, Mindanao State University-Iligan Institute of Technology, 2017

Master's Thesis "Strain-induced Properties and Sensing Capability of Monolayer Graphene"

Adviser Dr. Arnel A. Salvador, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2020-2021

Aldrin Senar Bental

B.S. Physics, Polytechnic University of the Philippines, 2013

Master's Thesis "Multifunctional Sensor based on Piezoresistive Properties of Zinc Oxide Film for Strain and Temperature Monitoring"

Adviser Dr. Armando S. Somintac, Professor, National Institute of Physics, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Genes Palapal Maylem

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

Master's Thesis "Cu_x-O-Deposited Activated Carbon Cloth Electrode for Supercapacitor Application"

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

MASTER OF SCIENCE (MARINE SCIENCE)

As of Second Semester, AY 2019-2020

Shalice Del Rosario Susana

B.S. Biochemistry, University of Santo Tomas, 2014

Master's Thesis "Anti-inflammatory Compounds from Marine Sponges"

Adviser Dr. Lilibeth A. Salvador-Reyes, Associate Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Mark Paulo Sabater Tolentino

B.S. Biology, University of the Philippines, Los Baños, 2013

Master's Thesis "Floating Plastic Debris as a Potential Dispersal Mechanism of HAB -Causing Species in the Marine Environment"

Adviser Dr. Deo Florence L. Onda, Associate Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of Midyear 2020

Victor Mamuray Chua

B.S. Biochemistry, University of Santo Tomas, 2014

Master's Thesis "Bioactive Venom Peptide from *Clavus davidgilmouri* (Family Drillidae)"

Adviser Dr. Lilibeth A. Salvador-Reyes, Associate 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

Michael John Rivera Mendiola

B.S. Biology, Polytechnic University of the Philippines, 2014

Master's Thesis "Examining the Influence of Basin-Scale Surface Circulation on Population Connectivity of the Orange Mud Crab, *Scylla olivacea* (Herbst, 1976), in the Sulu Sea, Philippines"

Adviser Dr. Rachel June Ravago-Gotanco, Associate Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2020-2021

Goldyn Anne Gazzingan Aquino

B.S. Fisheries, Central Luzon State University, 2016

Master's Thesis "Movement and Growth Response of Glass Eel *Anguilla marmorata* (Anguilliformes: Anguillidae) Exposed to Different Salinity Levels" Levels"

Adviser Dr. Patrick C. Cabaitan, Associate Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Jannelle Ramirez Casanova

B.S. Biochemistry, University of the Philippines, Manila, 2015

Master's Thesis "Synthesis and Biological Evaluation of Cyanobacterial-Inspired Peptides"

Adviser Dr. Lilibeth A. Salvador-Reyes, Associate Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Aljon Francis Koji Popa Elegado

B.S. Biology, University of the Philippines, Los Baños, 2012

Master's Thesis "The Microbiome and Biogeochemistry of a Shallow Hydrothermal Vent Near Biodiverse Tropical Reefs"

Adviser Dr. Caroline Marie B. Jaraula, Assistant Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Cecilia G. Conaco, Associate Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Paul Caesar Mason Flores

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

Master's Thesis "Shallow Structure and Late Quaternary Movements of the East Zambales Fault Segment in Lingayen Gulf"

Adviser Dr. Fernando P. Siringan, Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Mary Rose Paguergan Gabuyo

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

Master's Thesis "Effective Frequencies of Recreational-grade Echo Sounders: Emerging Hydroacoustic Tools in Imaging Coastal Submarine Groundwater Discharge"

Adviser Dr. Fernando P. Siringan, Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Erika Grace Mercado Gernato

B.S. Biology, University of the Philippines, Visayas, 2015

Master's Thesis "Geochemistry and Microbial Community Structuring in a Sediment Core from a Mariculture-Impacted Area"

Adviser Dr. Caroline Marie B. Jaraula, Assistant Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Deo Florence L. Onda, Associate Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Charlon Ascutia Ligson

B.S. Biology, University of the Philippines, Baguio, 2011

Master's Thesis "Influence of Spat Aggregations on Survival and Growth of *Acropora verweyi* Coral Sexual Propagules from Production to Post-Outplantation"

Adviser Dr. Patrick C. Cabaitan, Associate Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Geminne Guerrero Manzano

B.S. Biology, University of the Philippines, Los Baños, 2012

Master's Thesis "Taxonomic Status and Chemical Ecology of the Philippine Blue Sponge *Xestospongia* sp. (Porifera: Haplosclerida) from Puerto Galera, Oriental Mindoro, Philippines"

Adviser Dr. Lilibeth A. Salvador-Reyes, Associate Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Maria Vanessa B. Rodriguez, Assistant Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

NATIONAL INSTITUTE OF GEOLOGICAL SCIENCES

MASTER OF SCIENCE (GEOLOGY)

As of Midyear 2020

Acer Jian Tulauan Figueroa

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

Master's Thesis "Breccia and Vein Mineralization of the Balatoc Diatreme, Acupan Gold Deposit, Philippines"

Adviser Dr. Jillian Aira S. Gabo-Ratio, 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 2020-2021

Creszyl Joy Jalago Arellano

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

Master's Thesis "Interpretation of Ground Magnetic Data for the Delineation of Potential Mineralized Zones in Suyoc, Mankayan, Benguet"

Adviser Dr. Carla B. Dimalanta, Professor, National Institute of Geological Sciences, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Romer Carlo Tangog Gacusan

B.S. Applied Physics, University of Santo Tomas, 2011

Master's Thesis "Characterization of Shallow Geometry of the North Bohol Fault Using Seismic Reflection Investigation"

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

Jeffrey Cuyno Munar

B.S. Geology, University of the Philippines, Diliman, 2013

Master's Thesis "High Resolution Bathymetry of Paleosea-Level Indicators in Select Philippine Reefs and their Implications on the Overall Tectonic Movements from the Last Glacial Maximum"

Adviser Dr. Mario A. Aurelio, Professor, National Institute of Geological Sciences, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Fernando P. Siringan, Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2020-2021

Cleodette Latagan Lagata

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

Master's Thesis "Morphology and Mineral Chemistry of Pyrites in the Runruno Ore Body, 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

Raul Benjamin Corpuz Mendoza

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

Master's Thesis "Fault Geometry and Seismic Hazard of the Central Cebu Fault System"

Adviser Dr. Noelyna T. Ramos, Associate 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 2019-2020

Jerome B. Anano
Gerik Ivan L. Encarnado
Ma. Coleen Loise M. Navarro

As of First Semester 2020-2021

Jesus Alexander T. Ines *Cum Laude*
Yiu Man Noah C. Lee

As of Second Semester 2020-2021

Maria Razelle A. Aduana
Dwyneith Jade L. Cañete *Cum Laude*
John Esteban E. Cari *Cum Laude*
Vincenzo G. Curaming
Janeli Mae E. Kiok
Joaquin Miguel S. Lacson *Cum Laude*
Kathy Claire S. Langahid

INSTITUTE OF ENVIRONMENTAL SCIENCE AND METEOROLOGY

MASTER OF SCIENCE (ENVIRONMENTAL SCIENCE)

As of Second Semester, AY 2019-2020

Thea Philea Ines Mostrales

B.S. Biology, University of the Philippines, Diliman, 2015

Master's Thesis “Evaluation of Coral Micro-Fragmentation as a Method to Cover Artificial Substrates”

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

Co-Adviser Dr. Wilfredo Roehl Y. Licuanan, Professor, Department of Biology, College of Science, De La Salle University, Taft Avenue, Malate, Manila

As of Midyear 2020

Joji Shiraishi

B.S. Economics, University of the Philippines, Diliman, 2015

Master's Thesis "Application of Hedonic Pricing Method on Quality of Environment: The Case of Laguna de Bay Environs"

Co-Adviser Dr. Lemnuel V. Aragon, Professor, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Agustin L. Arcenas, Associate Professor, School of Economics, University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2020-2021

Dominique Sasha Noche Amorsolo

B.S. Geography, University of the Philippines, Diliman, 2015

Master's Thesis "Analyzing the Changing Morphology of the Lower Abra River and the Adaptations of the Flood-prone Communities of Santa, Ilocos Sur: A Geo-historical Perspective"

Adviser Dr. Cherry L. Ringor, Professor, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Giannina Nicole Rosales Feliciano

B.S. Biology, University of the Philippines, Diliman, 2015

Master's Thesis "Coral Community Types in Philippine Fringing Reefs and their Representativeness in Nationally Protected Seascapes"

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

Co-Adviser Dr. Wilfredo Roehl Y. Licuanan, Professor, Department of Biology, College of Science, De La Salle University, Taft Avenue, Malate, Manila

Francisco Miguel Buencamino Felicio

B.S. Applied Physics, University of the Philippines, Los Baños, 2013

Master's Thesis "Wind-Induced Resuspension of Total Suspended Solids in Laguna Lake During the Dry Season"

Adviser Dr. Gay Jane P. Perez, Associate 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 2020-2021

Edward Principe Cajucom

B.S. Environmental Science, Nueva Ecija University of Science and Technology,
2016

Master's Thesis "Localized Spatiotemporal Data Analysis on the Effect of
Land Cover Changes on Temperature Trends Over the
Philippines"

Adviser Dr. Gay Jane P. Perez, Associate Professor, Institute of
Environmental Science and Meteorology, College of
Science, National Science Complex, University of the
Philippines, Diliman, Quezon City

Co-Adviser Dr. Marcelino Q. Villafuerte II, Senior Weather Specialist,
Climatology and Agrometeorology Division, Philippine
Atmospheric and Geophysical and Astronomical Services
Administration (PAGASA) Department of Science and
Technology, Science Complex, Diliman, Quezon City

Ellen Mae Castro Leonardo

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

Master's Thesis "Sea Surface Temperature and Chlorophyll-a Preferences
of Yellowfin Tuna (*Thunnus albacares*) in the Philippine
Waters"

Adviser Dr. Gay Jane P. Perez, Associate Professor, Institute of
Environmental Science and Meteorology, College of
Science, National Science Complex, University of the
Philippines, Diliman, Quezon City

Karen Soriano Yaño

B.S. Chemistry, Tarlac State University, 2008

Master's Thesis "The Influence of Chemical Composition on the
Hygroscopic Properties of Particulate Matter (PM2.5)
Collected in Metro Manila, 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

Co-Adviser Dr. Jinsang Jung, Principal Researcher Scientist/Head, Gas
Meteorology Group, Division of Chemical and Biological
Meteorology, Korea Research Institute of Standards and
Science, Daejeon, South Korea

DIPLOMA IN ENVIRONMENTAL SCIENCE

As of Second Semester, AY 2015-2016

Darahlyn Biel Romualdo

B.S. Biology, University of the Philippines, Los Baños, 2010

MASTER OF SCIENCE (METEOROLOGY)

As of First Semester, AY 2020-2021

Charlie Saldua Andan

B.S. Agricultural Engineering, Visayas State University, 2015

Master's Thesis "Lightning and Thunderstorm Events in Greater Metro Manila"

Adviser Dr. Gay Jane P. Perez, Associate Professor, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Paul Daniel Salvador Ang

B.S. Applied Physics, University of the Philippines, Diliman, 2018

Master's Thesis "Characteristics of the El Niño-Southern Oscillation (ENSO) in Climate Forecast System Reanalysis (CFSR) Rainfall and Temperature in the Philippines"

Adviser Dr. Gay Jane P. Perez, Associate Professor, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Diana Mae Tilano Calde

B.S. Physics, De la Salle University, 2015

Master's Thesis "Storm Surge in the Eastern Region of the Philippines During 2016 and 2017 as Observed from Tide Gauge Data"

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

As of Second Semester, AY 2020-2021

Kate Ann Resurreccion Esguerra

B.S. Physics, Polytechnic University of the Philippines, 2012

Master's Thesis "Numerical Simulation of Tropical Cyclones in the

Philippines Using the Weather Research and Forecasting (WRF) and Cloud-Resolving Storm Simulator (CRESS) Model”

Adviser

Dr. Gerry Bagtasa, Professor, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Alex Cristobal Garibay, Jr.

B.S. Physics, University of the Northern Philippines, 2011

Master's Thesis

“Wind Energy Production Variability of Bangui Wind Farm”

Adviser

Dr. Gerry Bagtasa, Professor, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Maria Czarina Montañez Tierra

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

Master's Thesis

“Rapidly Intensifying Tropical Cyclones: Landfalls and Impacts in the Philippines and Prediction Using Himawari-8 Infrared Brightness Temperature”

Adviser

Dr. Gerry Bagtasa, Professor, Institute of Environmental Science and Meteorology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

INSTITUTE OF CHEMISTRY

MASTER OF SCIENCE (CHEMISTRY)

As of Second Semester, AY 2019-2020

El Czar Lim Galleposo

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

Master's Thesis

"Synthesis, Characterization, Structure, and Proton Conductivity of Isostructural Oxalate-Bridged Metal-Organic Frameworks Based on Divalent Transition Metals, $[(Me_2NH_2)_3SO_4]_2[M_2(C_2O_4)_3]$ (M = Cu, Fe, Co, Zn; Me = CH₃)"

Adviser

Dr. Marlon T. Conato, Professor, Institute of Chemistry, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Charlene Garcia Mendoza

B.S. Chemistry, University of the Philippines, Diliman, 2009

Master's Thesis "Evaluation of OSDA-Free Synthetic and Post-Synthetically Modified Mordenite-Type Zeolites using n-Hexane Cracking and its Application for Catalytic Cracking of Palm Oil"

Adviser Dr. Marlon T. Conato, Professor, Institute of Chemistry, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Toshiyuki Yokoi, Associate Professor, Institute of Innovative Research, Tokyo Institute of Technology, Japan

As of Midyear 2020

Anabel Balderama Abulencia

B.S. Chemistry, University of the Philippines, Los Baños, 2016

Master's Thesis "Cyclooxygenase (COX-2) Inhibitor(s) from *Costus dubius* (Afzel.) K. Schum Leaves"

Adviser Dr. Evangeline C. Amor, Professor, Institute of Chemistry, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2020-2021

Erle Angelo Momongan Peralta

B.S. Chemistry, University of the Philippines, Los Baños, 2014

Master's Thesis "Pigments from Endophytic Fungi and Their Potential as Alternatives to Synthetic Dyes"

Adviser Dr. Eizadora T. Yu, Professor, Marine Science Institute, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Riann Martin Oliquino Sarza

B.S. Food Technology, University of the Philippines, Diliman, 2016

Master's Thesis "A Paper-Based Device for the Detection and Quantification of Total Polyphenols in Plant-Based Beverages for Quality Assurance Purposes"

Adviser Dr. Cynthia Grace C. Gregorio, Associate Professor, Institute of Chemistry, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Casiana Blanca J. Villarino, Professor, Department of Food Science and Nutrition, College of Home Economics, University of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2020-2021

Ramoncito Luis Bassig De Boda

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

Master's Thesis "Total Synthesis of Kalata B2 and Evaluation of the Effect of Selenocysteine Substitution to its Folding and Anticancer Activity"

Adviser Dr. Irene M. Villaseñor, Professor, Institute of Chemistry, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Portia Mahal G. Sabido, Professorial Lecturer, Institute of Chemistry, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Ralph John Emerson Javier Molino

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

Master's Thesis "Dyeing in Metabolomics: Application of LC-MS profiling in the characterization of pigments in *Indigofera sp.*, *Terminalia catappa*, and *Dillenia philippinensis* Rolfe."

Adviser Dr. Hiyas A. Junio, Associate 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

Airon Rae C. Asuncion

Undergraduate Thesis "Metabolite Profiling of *Eucalyptus Deglupta Blume.* and *Ficus Nota (Blanco) Merr* through Mass Spectrometry and Bioinformatics Analysis"

Adviser Hiyas A. Junio, Ph.D.

Ladylaine Sientel P. Estamo

Undergraduate Thesis "Synthesis of 1-Hexyl-3-Methylimidazolium Trifluoroacetate Ionic Liquid for the RAFT Polymerization of DEGMEMA"

Adviser Susan D. Arco, Ph.D.

Jameson C. Lu

Undergraduate Thesis "Synthesis of 1-Methylimidazolium Ionic Liquids as Electrolytes for Supercapacitors"

Adviser Susan D. Arco, Ph.D.

Ciaraene T. Miguel

Undergraduate Thesis

“Trypsin Digestion of Bovine Serum Albumin (BSA) and Bioinformatic Profiling of Upregulated and Downregulated Proteins in NSCLC Tissue Specimen”

Adviser

Baby Rorielyn T. Dimayacyac-Esleta, Ph.D.

John William N. Montojo

Undergraduate Thesis

“Determination of Lead Ions (Pb²⁺) in Water Samples using Polymer Inclusion Membrane – 2-(2-thiazolylazo)-p-cresol (TAC) Optode”

Adviser

Lilibeth dIC. Co, Ph.D.

John Raymund A. Pating

Undergraduate Thesis

“Structural Analysis of Isoforms for the Predominant Laminin-Binding Integrin Subunits in Adult Skeletal Muscles (Integrin $\alpha7\beta1$)”

Adviser

Christine C. Hernandez, Ph.D.

Co-Adviser

Neil Andrew D. Bascos, Ph.D.

Nicolo Carlos R. Rosales

Undergraduate Thesis

“Synthesis of Selected Partially Protected *Monosaccharides* with Alcohol Groups of Varying *Nucleophilicities*”

Adviser

Medel Manuel L. Zulueta, Ph.D.

Kyla Mae Y. Tan

Undergraduate Thesis

“A Crystallographic Survey of Select Zirconium-Based Metal Organic Frameworks for Proton-Exchange Membrane Fuel Cell Electrolyte Material”

Adviser

Marlon T. Conato, Ph.D.

Janelle Stephanie M. Torrefiel

Undergraduate Thesis

“Color and Specular Reflectance Correlation Through *UV-Vis* Relative Reflectance Spectroscopy”

Adviser

Rheo B. Lamorena-Lim, Ph.D.

Co-Adviser

Marte S. Villena

As of First Semester, 2020-2021

Razell Jigs P. Carraig

Undergraduate Thesis

“Metal Oxide Background as a Reference Material and Potential Instrumentation for Aerosol Chemical Composition”

Adviser

Len Herald V. Lim, Ph.D.

Co – Adviser

Rheo B. Lamorena-Lim, Ph.D.

Nicole D. Del Rosario

Undergraduate Thesis
Adviser

“Alternative Solvents for Fractionation”
Evangeline C. Amor, Ph.D.

Jaica Lynelle G. Paras

Undergraduate Thesis
Adviser

“Synthesis and Gelation Studies of Cyclohexane Bis-urea Derivatives as Organogelators”
Monissa C. Paderes, Ph.D.

Giane Joyce S. Solacito

Undergraduate Thesis
Adviser

“Cyantifically Purplexed: Rapid Screening for Potential Functional Foods and Colorants Through UPLC-QTOF Workflow”
Hiyas A. Junio, Ph.D.

As of Second Semester, 2020-2021

Jeanne Lorraine P. Amponin

Undergraduate Thesis
Adviser

“Synthesis of Bis-Urea-Based Low Molecular Weight Compounds as Rheology Modifiers for Surfactants”
Monissa C. Paderes, Ph.D.

Jun Candid B. Dumale

Undergraduate Thesis
Adviser

“Angiotensin-Converting Enzyme Inhibitory Activity of Macaranga Bicolor Müll.Arg. Extracts”
Christine C. Hernandez, Ph.D.

Lorenzo Miguel V. Gonzalez

Undergraduate Thesis
Adviser

“Inhibitory Activity of Antidesma Bunius Linn. Bark Against Cyclooxygenase-2 and Cyclooxygenase-1”
Evangeline C. Amor, Ph.D.

Ainsley G. Magluyan

Undergraduate Thesis
Adviser

“Comparison of a Chemically-Reduced and Electrochemically-Reduced Graphene Oxide as an Electrode Modifier in the Electrochemical Detection of Hypochlorite”
Allan Christopher C. Yago, Ph.D.

Gabriell Sebastian B. Makimkim

Undergraduate Thesis
Adviser

“A Quantitative Report on the Influence of Parameter Change in Global Natural Product Social Molecular Networking (GNPS) on Compound Results”
Christine C. Hernandez, Ph.D.

Arianna B. Sietereales

Undergraduate Thesis "Comparative Metabolomics of Imported and Native Garlic (*Allium sativum L.*) Leaves and Native Garlic Vines (*Pachyptera alliacea*) using UHPLC-QTOF Mass Spectrometry"
Adviser Hiyas A. Junio, Ph.D.

Manuel Luis T. Terrado

Undergraduate Thesis "15-LOX Inhibitory Activity of *Chrysophyllum Cainito L.* Leaves"
Adviser Evangeline C. Amor, Ph.D.

INSTITUTE OF BIOLOGY

MASTER OF SCIENCE (BIOLOGY)

As of First Semester, AY 2020-2021

Simeon Gabriel Flores Bejar

B.S. Biology, University of the Philippines, Diliman, 2016
Master's Thesis "Sleep-related behavior of Philippine Tarsiers (*Carlito syrichta* Linnaeus, 1758) in Mindanao, Philippines"
Adviser Dr. Mariano Roy M. Duya, Assistant Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Jay Sebastian Fidelino

B.S. Biology, University of the Philippines, Diliman, 2012
Master's Thesis "Fruit Bats and Birds as Indicators of Forest Restoration Success in Geothermal Reservations in the Philippines"
Adviser Dr. Mariano Roy M. Duya, Assistant Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Monaliza Bassig Magat

B.S. Biology, University of the Philippines, Baguio, 2014
Master's Thesis "Design and Validation of SSR Markers for Nine Rice (*Oryza sativa L.*) Genotypes with Variable Heat Tolerance Responses Based on Agromorphic Data and Pollen Fertility Analysis"
Adviser Dr. Jessica D. Rey, Assistant Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Aroin Bitoin Verdera

B.S. Biology, University of the Philippines, Manila, 2016

Master's Thesis "Biodegradation of Plastic Components and Enzymatic Activity of Bacteria Isolated from the Sediments of Meycauayan River"

Adviser Dr. Marie Christine M. Obusan, Assistant Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

MASTER OF SCIENCE (MICROBIOLOGY)

As of Second Semester, AY 2019-2020

Shaira Jane Arollado Acosta

B.S. Biology, Miriam College, 2014

Master's Thesis "Development of Recombinase Polymerase Amplification Enzyme-Linked Oligonucleotide Assay (RPA-ELONA) for the Detection of *Trichomonas vaginalis*"

Adviser Dr. Windell L. Rivera, Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Ciara K. O' Sullivan, Research Professor, Nanobiotechnology and Bioanalysis Group, Universitat Rovira I Virgili, Tarragona, Spain

As of Midyear 2020

Janina Mendoza Guarte

B.S. Biology, University of the Philippines, Diliman, 2015

Master's Thesis "Utilization of Carabao's Milk for the Development of an Aged Cheese with Probiotic and Anti-*Shigella* Activities"

Adviser Dr. Joyce A. Ibana, Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of First Semester, AY 2020-2021

Raymond Hernandez Parcon

B.S. Biology, Adamson University, 2014

Master's Thesis "Efficacy of a Microbial Biological Control Agent (MBCA) in Controlling the Growth of Fungal Pathogens of Tomato"

Adviser Dr. Jessica F. Simbahan, Associate Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

As of Second Semester, AY 2020-2021

Liezel Del Castillo Atole

B.S. Biology, University of the Philippines, Los Baños, 2013

Master's Thesis "Biological Activities of Endophytic Bacteria Isolated from Narra, *Pterocarpus indicus*, Growing in the Mount Makiling Forest Reserve and UP Arboretum"

Adviser Dr. Jessica F. Simbahan, Associate Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Virgie A. Alcantara, M.Sc., Researcher, National Institute of Molecular Biology and Biotechnology (BIOTECH), University of the Philippines, Los Baños, Laguna

Cyndi Mae Signar Bandong

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

Master's Thesis "Molecular Analyses of the Nitrogen-fixing *Frankia* sp. Isolated from *Coriaria intermedia* Matsum. Collected from Benguet, Philippines and its Implication on the Spread of the Members of Coariariaceae"

Adviser Dr. Jessica F. Simbahan, Associate Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Co-Adviser Dr. Katharina Pawlowski, Professor, Department of Ecology, Environment and Plant Sciences, Stockholm University, Stockholm, Sweden

Jann Eldy Lim Daquioag

B.S. Biology, University of the Philippines, Diliman, 2016

Master's Thesis "Isolation and Characterization of Actinomycetes with Cellulolytic and Antimicrobial Activities from Soils Collected in the University of the Philippines Diliman"

Adviser Dr. Gil M. Penuliar, Associate Professor, Institute of Biology, College of Science, National Science Complex, University of the Philippines, Diliman, Quezon City

Santiago Emil IV Aves Josen

B.S. Biology, University of the Philippines, Visayas, 2017

Master's Thesis "Copper Homeostasis and Oxidative Stress Response in a Copper-Tolerant *Fusarium oxysporum*"

Adviser Dr. Michael C. Velarde, Professor, Institute of Biology,
College of Science, National Science Complex, University
of the Philippines, Diliman, Quezon City

DIPLOMA IN BIOLOGY

As of Second Semester, AY 2019-2020

Dawn Nichelle Serna Medrano

B.S. Biology, New Era University, 2017

INSTITUTE OF BIOLOGY

BACHELOR OF SCIENCE IN BIOLOGY

As of Second Semester, 2020-2021

Juan Gabriel T. Abesamis

Undergraduate Thesis “Morphological Analysis of Blue Swimming Crab
(*Portunus pelagicus*) Populations from Nine Fishing
Grounds in the Philippines through Landmark-Based
Geometric Morphometrics”

Adviser Brian S. Santos, Ph.D.

Renne Margaret U. Alcazar ***Cum Laude***

Undergraduate Thesis “Meta-Analysis on the Microbial Community within the
Female Reproductive Tract”

Adviser Michael C. Velarde, Ph.D.

Monica Pauline R. Baysa ***Cum Laude***

Undergraduate Thesis “Understanding the Role of Mating Systems in Shaping
Lineages of *Alternaria* spp., Cause of Diseases of
Economically Important Crops Worldwide”

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

Carmela Maria P. Berba ***Summa Cum Laude***

Undergraduate Thesis “A Systematic Review of the Philippines’ Biodiversity:
Metadata Gaps, Taxonomic Biases, and Spatial Biases in
DNA Barcode Data of Animal and Plant Taxa in the
Context of Species Occurrence Data”

Adviser Ambrocio Melvin A. Matias, Ph.D.

Maria Michelle F. Cadiz

Undergraduate Thesis “Developing an Integrative Approach to the Taxonomy and Systematics of Philippine Marine Macroalgae”
Adviser Jonathan A. Anticamara, Ph.D.

Lucia Beatrice C. Cal

Undergraduate Thesis “Geographic Variation in Select Vocalizations of Philippine Hawk-Cuckoo *Hierococcyx Pectoralis* and Philippine Coucal *Centropus viridis*”
Adviser Carmela P. Española, Ph.D.

Hann Cedric M. Cenera

Undergraduate Thesis “Inventory, Distribution, and Taxonomic Keys of Lepidopteran Species in Central Luzon from Digital Databases”
Adviser Ronniel D. Pedales, M.Sc.

Hannah Patricia D. Chua

Cum Laude

Undergraduate Thesis “Factors Affecting the Antioxidant and Antimicrobial Properties of *Euphorbia hirta*, *Origanum vulgare*, and *Vitex negundo*: A Systematic Review”
Adviser Juliana Janet M. Puzon, Ph.D.

Paolo Emanuel Y. Co

Undergraduate Thesis “Urban Backyard Diversity: Temporal Survey of Coleoptera and Lepidoptera Abundance in Makati City, Metro Manila, Philippines”
Adviser Ronniel D. Pedales, M.Sc.

Cheenie Ann A. Corpuz

Cum Laude

Undergraduate Thesis “A Meta-Analysis on the Prevalence of Cardiovascular Involvement During and After Hospitalization of COVID-19 Pediatric Patients with Multisystem Inflammatory Syndrome”
Adviser Zenith Gaye A. Orozco-Bautista, Ph.D.

Lara Jeremy L. De Dios

Undergraduate Thesis “Comparative Analysis between beta-and alpha-amylase Gene Sequences of *Entamoeba histolytica* HM-11MSS and other *Entamoeba* Species”
Adviser John Anthony D. Yason, Ph.D.

Maria Patricia Y. Echiverri

Cum Laude

Undergraduate Thesis “Assessment of the Teratogenic Effects of Ethanol on the Craniofacial Cartilage of Zebrafish *Danio rerio Larvae*”
Adviser Lerrie Ann Ipulán-Colet, Ph.D.

Teofilo Jose P. Eugenio III

Cum Laude

Undergraduate Thesis

“Association Between Bird Species Abundance and the Habitats Surrounding Clark International Airport”

Adviser

Carmela P. Española, Ph.D.

Robbi Miguel G. Falcon

Undergraduate Thesis

“Determining the Phylogeography of Fungicide Resistance of *Alternaria alternata* and *Alternaria tenuissima* to Demethylation Inhibitor Fungicides”

Adviser

Leilani G. Sumabat-Dacones, Ph.D.

Anna Felicia B. Flores

Cum Laude

Undergraduate Thesis

“Comparison of *Blastocystis* Isolates Through Sequence Alignment and Three-Dimensional Protein Structures Analysis of Succinate Dehydrogenase”

Adviser

John Anthony D. Yason, Ph.D.

Justin V. Guda

Cum Laude

Undergraduate Thesis

“A Systematic Review of the Mechanisms used by Cadmium-Accumulating Herbaceous Plants with Phytoremediation Potential”

Adviser

Juliana Janet M. Puzon, Ph.D.

Michael Adrian R. Imperial

Undergraduate Thesis

“Factors Affecting the Phytochemical Composition and Bioactivity of Essential Oils in Plant Species of Family Alliaceae: A Systematic Review”

Adviser

Juliana Janet M. Puzon, Ph.D.

Maegan Victoria S. Kho

Undergraduate Thesis

“A Meta-Analysis on the Sex Bias Incidence of Cleft Palate and the Laterality of Unilateral Cleft Lip Between Males and Females”

Adviser

Lerrie Ann D. G. Ipulán-Colet, Ph.D.

Alexis Emilia D. Martin

Undergraduate Thesis

“Targeting the p53 Signaling Pathway in Senescent Cells”

Adviser

Michael C. Velarde, Ph.D.

Jorge Caleb V. Mataga

Undergraduate Thesis

“Design of SSR Markers for DNA Fingerprinting of Five Philippine Endemic Plant Species (*Blumea balsamifera*, *Carmona retusa*, *Euphorbia hirta*, *Psidium guajava*, and *Vitex negundo*) Collected in Various Regions”

Adviser Jessica D. Rey, Ph.D. **Brian Oscar B. Materiales**

Undergraduate Thesis “A Meta-Analysis on the Frequency of Phytoplankton Occurrence in the Gastrointestinal Tract of Larval and Juvenile Fishes”

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

Terrence Ferdinand S. Nagaño

Undergraduate Thesis “*In Silico* Investigation of the SH^3 Gene Region in the *Coffea canephora* Genome using Published Genetic Markers and Resistance-Associated Genes Together with Bioinformatics Tools and Data Mining”

Adviser Daisy May C. Santos, Ph.D.

Co-Adviser Nick Rainier S. Santos, M.Sc.

Mackinley Graham G. Ngo **Cum Laude**

Undergraduate Thesis “Comparative Genome Analysis of the Necrotrophic Effectors Among *Alternaria* spp.”

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

Jasmine Fatima C. Oyog

Undergraduate Thesis “*Toxoplasma gondii* and *Sarcocystis* spp. cysts and Other Histopathological Lesions in Tissues of Odontocetes That Stranded in the Philippines from 2018-2019”

Adviser Marie Christine M. Obusan, Ph.D.

Kristine Nicole M. Padilla **Cum Laude**

Undergraduate Thesis “Optimization of the Protocol for the Transplantation of the MCF7 Mammospheres on the Duck Chorioallantoic Membrane”

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

Aleisha Claire N. Perez **Cum Laude**

Undergraduate Thesis “Assessment of the Teratogenic Effects of Cyclophosphamide on *Danio rerio* Embryonic Heart Development”

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

Marie Nathalie D. Sales

Undergraduate Thesis “Identification and Comparison of Molecular Markers in Rare Indigenous Species *Calophyllum soulattri* Burm and *Dellinia luzoniensis* (Vidal) Merr. in the Philippines”

Adviser Jessica D. Rey, Ph.D.

Isabella Maria T. Tan

Undergraduate Thesis

“Effect of MgO and CaO nanoparticles on the Stomatal Characteristics and Association of Genes for Stomatal Aperture Development and Biotic Response in *Coffea canephora*”

Adviser

Jessica D. Rey, Ph.D.

Co-Adviser

Arthur R. Baria, M.Sc.

Oscar C. Viernes, Jr.

Undergraduate Thesis

“Physiological Responses of Plants to Volcanic Ash and Ashfall: A Systematic Review”

Adviser

Juliana Janet M. Puzon, Ph.D.

Patricia Louise A. Yu

Undergraduate Thesis

“Bioinformatics Survey for Potential Resistance Genes in the *Ck-1* Gene Region of the *Coffea canephora* Genome”

Adviser

Daisy May C. Santos, Ph.D.

Co-Adviser

Nick Rainier S. Santos, M.Sc.

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

<u>2020</u>	BEATRICE HOPE G. REYES RYAN KENDRICK U. LIM CHLOE B. BORROMEIO	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* 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 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 MELVIN FLOYD E. SEE JANN ADRIEL C. SY	BIOLOGY BIOLOGY MBB* MBB* MBB*
2012	MARK JASPER L. CO PATRICIA MARIA GREGORIA V. MINA CHERRY JOY F. TUMAMPO	MATHEMATICS BIOLOGY 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	MATHEMATICS MATHEMATICS

	CARLO RAYMUND R. CRUZ JOSE ERNIE C. LOPE AGHAM BAYAN S. POSADAS	MATHEMATICS MATHEMATICS APPLIED PHYSICS
1993	SALVADOR EUGENIO DC. CAOILI	MBB*
1991	RIA MONINA GEORGINA F. APELO	MATHEMATICS
1990	ARLENE C. KEH	BIOLOGY
1989	FRANCISCO SA. SANDEJAS	APPLIED PHYSICS
1988	MA. CARMINA E. PEREZ ALBERTO REYNALDO MELCHOR S. SANTOS-OCAMPO	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

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

*MATERIALS SCIENCE AND ENGINEERING

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INSTITUTES / PROGRAM**

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Christopher Gerard Sevilla

Materials Science Engineering Program

Dr. Marienette Vega

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

ACKNOWLEDGEMENT

Institute Marshals
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Office of the College Secretary
Office of the Associate Dean for Mentoring, Academic Progress and Advancement
Office of the Associate Dean for Student, Alumni & Public Affairs
Student, Alumni & Public Affairs (SAPA) Committee
Office of the Associate Dean for Facilities and Resources Management
Office of the Associate Dean for Research, Innovation, Development and Enterprise
Science and Society Program
College of Science Library
Computational Science Research Center
College of Science Administrative Staff

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