
ALLEN GLEN CUMAYA GIL

School of Environmental Science and Management
University of the Philippines Los Baños
Los Baños, Laguna, Philippines

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EDUCATION

- 2020–2023 **MS IN ENVIRONMENTAL SCIENCE**
University of the Philippines Los Baños, Philippines
- 2014–2020 **BS IN AGRICULTURAL ENGINEERING, CUM LAUDE**
Visayas State University, Philippines
- 2018–2019 **SHORT-TERM EXCHANGE PROGRAM IN SCIENCE AND ENGINEERING**
Tokyo University of Agriculture and Technology, Japan

RESEARCH EXPERIENCE

- 2020–2023 **MASTER'S THESIS RESEARCH**
University of the Philippines Los Baños
Thesis Adviser: Dr. Cristino L. Tiburan, Jr.
Research: ***Post-Disaster Recovery Assessment of Mangrove Forests in Leyte Island, Philippines using Sentinel-2 Imagery***
- 2014–2020 **UNDERGRADUATE THESIS RESEARCH**
Visayas State University
Thesis Adviser: Prof. Nilo L. Leorna
Research: ***NutriTester: Development of a Nutrient Quality Multi-Tester and Smartphone-Based Nutrient Management System for Hydroponic Vegetable Production***
- 2018–2019 **SHORT-TERM EXCHANGE PROGRAM IN SCIENCE AND ENGINEERING INDEPENDENT RESEARCH**
Tokyo University of Agriculture and Technology
Thesis Adviser: Dr. Yoshiyuki Yamashita
Research: ***Internet of Things-based Automated Hydroponic Vegetable Production System***

TECHNICAL SKILLS

- Remote Sensing and Geospatial Analysis (Google Earth Engine, SNAP)
- Geographic Information Systems (QGIS)
- Programming (working knowledge with JavaScript, C++, Python)
- Environmental Impact Assessment
- Economic Valuation of Ecosystem Service
- Statistical Analysis and Regression Modeling
- Systematic Literature Review
- Sustainable Agriculture and Agro-Ecological Systems Design
- Academic Research, Technical Writing, and Grant Proposal Writing
- Project Management, Organizational Leadership, and Community Development
- Graphic Design (Affinity Designer, Adobe Illustrator)

PUBLISHED AND UNDER REVIEW RESEARCH

- Gil, A.G.C.**, Arboleda, M.D.M., Espaldon, M.V.O., Sanchez, P.A.J., and Tiburan, C.L.J. (Under review). Post-Disaster Recovery Assessment of Mangrove Forests in Leyte Island, Philippines using Sentinel-2 Imagery.
- Gil, A.G.C.** and Tiburan, C.L.J. (Under review). Mapping Post-Haiyan Mangrove Damage and Recovery in Leyte and Eastern Samar using Google Earth Engine.
- Gil, A.G.C.**, Bonoan, R.C., and Sevilla-Nastor, J.B. (In prep for publication). Rapid Post-Disaster Land Cover Change Assessment through Remote Sensing Techniques.
- Gil, A.G.C.** (In prep for publication). A Systematic Review of Socio-Economic and Spatial Explanatory Variables among Meta-Analysis Value Transfer of Ecosystem Services.
- Gil, A.G.C.** and Manipol, M. (In prep for publication). Discovering Data in the Dump: Filling the Gaps of Solid Waste Management in the Philippines through Regression Modelling and Geospatial Techniques
- Gil, A.G.C.**, Carandang, A.J., Razon, B., and Tenio, K.F. (In prep for publication). Threats to the Philippines' Last Ecological Frontier: Correlation of Oil Palm and Rubber Cultivation on Tree Cover Loss in Palawan, Philippines.
- Gil, A.G.C.** and Montecillo, E. (In prep for publication). Socio-Ecological Systems Framework Analysis of the Philippine Ecological Solid Waste Management Act of 2020 (RA 9003).
- Cañaverall, E.V., **Gil, A.G.C.**, Bayhon, M.A., Atonen, E., Cap-atan, J.D., Khouangvichit, P., and Ravalo, D.A. (In prep for publication). Social Acceptability on Seabed Mining in the Coastal Barangays of Ternate, Cavite, Philippines.
- Gil, N.C., **Gil, A.G.C.**, Paloma, L.J., and Hufalar, A.M. (In prep for publication). Socio-Economic Predictive Model of Agricultural Productivity.
- Gil, N.C., Daclag, J.G., and **Gil, A.G.C.** (2015). Growth Pattern of Lactic Acid Bacteria in Probiotic Rice Washed Water. Journal of Science, Engineering and Technology Vol. 3 (2015).

CONFERENCE AND INVITED PRESENTATIONS

- Nov 21–23, 2023 **Gil, A.G.C.**, Arboleda, M.D.M., Espaldon, M.V.O., Sanchez, P.A.J., and Tiburan, C.L.J. Post-Disaster Recovery Assessment of Mangrove Forests in Leyte Island, Philippines using Sentinel-2 Imagery. 4th International Integrated Natural Resource and Environmental Management (INREM) Conference. **Best Poster Presentation Award (1st Place)**

- Sept 27–28, 2023 **Gil, A.G.C.**, Arboleda, M.D.M., Espaldon, M.V.O., Sanchez, P.A.J., and Tiburan, C.L.J. Post-Disaster Recovery Assessment of Mangrove Forests in Leyte Island, Philippines using Sentinel-2 Imagery. 11th Accelerated Science and Technology Human Resource Development Program (ASTHRDP) Graduate Scholars' Conference.
- Mar 30, 2022 **Gil, AGC.** Remote Sensing for Post-Disaster Monitoring and Management. College of Engineering and Technology Web-Colloquium: "Engineering and Technology for Disaster Risk Reduction".
- Dec 3, 2021 **Gil, AGC.** Mapping Post-Haiyan Mangrove Damage and Recovery in Leyte and Eastern Samar using Google Earth Engine. 29th Philippine Biodiversity Conference: "Strategies for Inclusivity in PH Biodiversity Conservation".
- Sept 11, 2021 **Gil, AGC.** Generating Innovative Ideas: Networking and Collaborations. Visayas State University (VSU) University Student Service Office Leadership Summit.
- Nov 27, 2020 **Gil, AGC.** Threats to the Last Ecological Frontiers of the Philippine Eagle (*Pithecophaga jefferyi*): Utilizing Online Database and Graphic Designing Tools for Advocacy Communication. Pista ng Mapa 2020 Conference.
- Sept 26, 2019 **Gil, N.C., Gil, A.G.C.,** Paloma, L.J., and Hufalar, A.M. Socio-Economic Predictive Model of Agricultural Productivity. 3rd National Conference on Poverty Alleviation and Sustainable Development. **Best Research Poster Award (1st Place)**

PROFESSIONAL EXPERIENCE

- Nov 2023–Present **PROJECT TECHNICAL ASSISTANT VI (Full-Time)**
University of the Philippines Los Baños – School of Environmental Science and Management
- Responsibilities and Achievements:**
I am one of the project officers in the implementation of the "Institutionalizing Integrated Crop Monitoring and Forecasting (ICMF) towards a Smarter Philippine Agriculture" research project. I am tasked to conduct stakeholder mapping and analysis, partnership building and network strengthening, advocacy plan development, policy instrument endorsement, executive and legislative lobbying, and other supporting and administrative functions.
- Nov 2023–Present **ADVISORY GROUP MEMBER (Part-Time)**
Asia-Pacific Network of Early Career Professionals for Global Change Research (APN-ECAP)
Asia Pacific
- Responsibilities and Achievements:**
As an Advisory Group member of APN-ECAP, I help in contributing strategic guidance, subject matter expertise, network facilitation, advocacy representation, project evaluation, information dissemination, and collaborative decision-making in all the organization's engagements across Asia Pacific.
- Mar 2021–Jul 2021 **INSTRUCTOR (Full-Time)**
Visayas State University – Department of Agricultural and Biosystems Engineering
Baybay City, Philippines
- Responsibilities and Achievements:**
I was tasked to handle lecture and laboratory classes on Differential Equations and Fluid Dynamics to over ten sections of around thirty students. I also performed supportive administrative functions and research works for the Department of Agricultural and Biosystems Engineering.
- Jun 2020–Feb 2021 **WRITER (Full-Time)**
Visayas State University – University Integrated Media Center
Baybay City, Philippines
- Responsibilities and Achievements:**
I oversaw writing and publishing news articles featuring major events, research work, and academic accomplishments of the Visayas State University. I also provided supportive technical roles in the production, operation, and management of the university's virtual and on-site programs.

LEADERSHIP AND COMMUNITY DEVELOPMENT WORK

- Jun 2020–Present **CO-FOUNDER AND EXECUTIVE DIRECTOR (Voluntary)**
+Fun
Leyte, Philippines
- Responsibilities and Achievements:**
I am in-charge of all organizational operations, project leader supervision, communication and external partnerships, financial management and resource allocation, and creative direction and social media management. I have won grant competitions from UNICEF, UNFPA, UNDP, and YSEALI to fund for the development of three educational board games on COVID-19, marine conservation, and climate change and disaster awareness.
- Jun 2018–Present **CO-FOUNDER AND VP FOR RESEARCH AND CAMPAIGNS (Voluntary)**
Youth Leaders for Environmental Action Federation
Eastern Visayas, Philippines
- Responsibilities and Achievements:**
I oversaw all online advocacy campaigns, communications and partnerships, resource allocation and grant writing, and creative production and social media management.
- We forged partnerships with Greenpeace, Oxfam, the Philippine Department of Environment and Natural Resources, and other grassroots organizations to conduct diverse environmental projects that engaged tens of thousands of youths and communities.
- Jun 2014–Jun 2020 **PRESIDENT (2016-17) & VP FOR EXTERNAL AFFAIRS (2019-20) (Voluntary)**
Terrestrial and Aquatic Restorations by Students Immersed in Environmental Reforms
Baybay City, Philippines
- Responsibilities and Achievements:**
I oversaw all executive decision-making, organizational management, project strategizing, resource allocation, communications and external partnerships, project proposal writing, creatives production and social media management. We spearheaded collaborative environmental education and action campaigns, restorative initiatives, and youth empowerment activities that engaged thousands of students in my university and local

community. Through our work, we were garnered the Best Interest Organization Award for multiple years, and I was honored the VSU Leadership Award and the Most Outstanding ABE Student Leadership Award.

HONORS AND AWARDS

Sep 30, 2020	CUM LAUDE HONOR 67th Visayas State University Commencement Exercises
Sep 30, 2020	DEPT. OF AGRICULTURAL AND BIOSYSTEMS ENGINEERING ACADEMIC EXCELLENCE AWARD 67th Visayas State University Commencement Exercises
May 9, 2018	CONSISTENT UNIVERSITY HONOR Visayas State University Honors and Awards Convocation 2018
Apr 28, 2021	2020 MOST OUTSTANDING AGRICULTURAL AND BIOSYSTEMS ENGINEERING STUDENT OR YOUNG MARAMBA AWARD Philippine Society of Agricultural & Biosystems Engineers National Convention
Dec 18, 2020	NATIONAL FINALIST, 18TH SEARCH FOR TEN ACCOMPLISHED YOUTH ORGANIZATIONS AWARDS 18th Search for the Ten Accomplished Youth Organizations (TAYO)
Sep 30, 2020	VISAYAS STATE UNIVERSITY LEADERSHIP AWARD 67th Visayas State University Commencement Exercises
Apr 30, 2020	2019 MOST OUTSTANDING AGRICULTURAL AND BIOSYSTEMS ENGINEERING STUDENT LEADER AWARD Philippine Society of Agricultural & Biosystems Engineers National Convention
Jul 27, 2019	MOST DYNAMIC START-UP, YOUNG SUSTAINABLE IMPACT SEA INNOVATION PROGRAMME 2019 Young Sustainable Impact Southeast Asia Innovation Programme

GRANT AND FUNDING FOR COMMUNITY DEVELOPMENT INITIATIVES

2023	Young Southeast Asian Leaders Initiative (YSEALI) Marine Warriors Workshop Grant	\$1,500.00
2022	Young Southeast Asian Leaders Initiative (YSEALI) Academic Fellowship on Environmental Issues Small Grants Award	\$2,000.00
2021	Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA) Agri-Boost Camp Grant	\$580.00
2021	2021 Sea and Earth Advocates Camp Summit Grant	\$480.00
2021	UNDP Youth Social Innovation Laboratory	\$955.00
2020	UN Population Fund Philippines Kabayani Challenge Fund	\$955.00
2020	Ideas Positive Run 10	\$1,910.00
2018	Young Southeast Asian Leaders Initiative Mekong Delta Small Grant	\$1,500.00

CONFERENCES AND TRAINING

May 24–June 14, 2023	2022 SPRING YSEALI ACADEMIC FELLOWSHIP ON ENVIRONMENTAL ISSUES Maureen and Mike Mansfield Center, University of Montana, United States
May 11–14, 2023	YSEALI GAME CHANGERS AND GAME JAM REGIONAL WORKSHOP Kuala Lumpur, Malaysia
Dec 1–7, 2022	2022 YSEALI REGIONAL WORKSHOP: MARINE WARRIORS Nha Trang, Vietnam
Nov 20–22, 2019	NATIONAL YOUTH CONFERENCE ON CLIMATE CHANGE ADAPTION AND MITIGATION, DISASTER RISK REDUCTION AND RESILIENCE VSU Convention Center, VSU, Baybay City, Philippines
Sep 25–27, 2019	3RD NATIONAL CONFERENCE ON POVERTY ALLEVIATION AND SUSTAINABLE DEVELOPMENT Saint Paul's School of Professional Studies, Palo, Philippines
Sep 9–12, 2019	ASEAN PLUS THREE YOUTH ENVIRONMENTAL FORUM Phuket, Thailand
Mar–July, 2019	YOUNG SUSTAINABLE IMPACT SOUTHEAST ASIA INNOVATION PROGRAMME National University of Singapore, Singapore
Jun 22–23, 2019	GLOBAL LANDSCAPES FORUM 2019 & YOUTH IN LANDSCAPES WORKSHOP Bonn, Germany
Jan 31–Feb 2, 2019	ADVANCED LECTURE ON INTERNATIONAL ENVIRONMENTAL AND AGRICULTURAL SCIENCE Tokyo, Japan
Dec 13–14, 2018	INTENSIVE COURSE ON COMMUNITY-BASED FOREST MANAGEMENT Tokyo, Japan
Jun 4–9, 2018	2018 YSEALI REGIONALWORKSHOP: PROTECTING THE MEKONG DELTA ENVIRONMENT Can Tho, Vietnam

SCHOLARSHIPS

2020–23	Master's Degree	Department of Science and Technology Accelerated Science and Technology Human Resource Development Program (DOST ASTHRDP)
2018–19	Short-Term Exchange Program	Sato-Yo International Scholarship Foundation Award
2015–20	Bachelor's Degree	COCOFED Alumni Scholarship
2014–15	Bachelor's Degree	Visayas State University Honors Scholarship