**Adrienne Gail Sy**

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## Education

**Ateneo de Manila University** — Quezon City, Metro Manila
Bachelor of Science in Life Sciences — June 2026

**St. Scholastica's College Manila** — Manila, Metro Manila
Graduated First Honors in Senior High school — June 2022
Benedictine Award
Mother Ferndinanda Hoelzer Award for Photography
Loyalty Medalist

Graduated Third Honors in Junior High school — July 2020
Sr. Bernarda Jovellanos Award for Badminton
Sr. Willibalda Schrader Award for Badminton

## Experience

**School of Science and Engineering (SOSE) Sanggunian** — Quezon City, Metro Manila
**Creatives and Communications Division Head** — May 2025 - July 2026
- Organized and developed workflows for publication materials, event promotions, and announcements for all organizations and faculty under the School of Science and Engineering.
- Coordinated with officers and project heads to translate organizational goals into effective visual media outputs
- Supervised creative team members in design execution, revisions, quality checking, and deadline management.

**Creatives and Communications Division Visual Media Deputy** — May 2024 - May 2025
- Assisted in photo coverage planning, shot selection, and coordination with project teams during events
- Supported the Creatives Communications Division in producing timely and high-quality visual media outputs

**Visual Media** — September 2022 - May 2024
- Documented events, programs, and student-centered initiatives under the organization through photography
- Captured and organized event photos for publication, archival use, and official communication materials

**International Biology Olympiad 2026** — Quezon City, Metro Manila
**Delegate Guide for Slovenia** — July 2025
- Assisted delegates of Slovenia throughout the competition week by providing guidance, logistical support, and day-to-day coordination
- Coordinated with organizers and team members to ensure delegates remained informed, prepared, and on schedule
- Underwent cultural and gender sensitivity training

**Blue Hanguk Society** — Quezon City, Metro Manila
**Documentations and Publications** — June 2025 – June 2026
- Documented Korean cultural events, member activities, and society programs through event photography
- Supported publication outputs by preparing event highlights, captions, and documentation materials
- Coordinated with project teams to capture key moments aligned with the society’s cultural and community centered goals

**Project Management** — September 2022 – May 2023
- Created Korean cultural programs for the student body
- Assisted in organizing Korean cultural programs, member engagement activities, and society-led events

## Undergraduate Research and Science Communication Projects

**Potential of *Pseudomonas putida* as a Bioremediation Agent for the Pasig River**
Research Proposal | Ecology
- Evaluated *Pseudomonas putida* as a potential bioremediation agent for polluted Pasig River water through natural attenuation.
- Designed a five-site water-sampling and laboratory framework incorporating microbial identification and physicochemical measurements, including pH, temperature, dissolved oxygen, oxidation-reduction potential, and contaminant concentrations.
- Proposed a five-week treated-versus-control monitoring design and time-series analysis using repeated-measures ANOVA and R to evaluate changes associated with bioremediation.

**In Silico Evaluation of *Moringa oleifera* Phytochemicals Against *Ehrlichia chaffeensis* Protein Targets**
Computational Research Project | Biophysics
- Screened nine *Moringa oleifera* phytochemicals against three *Ehrlichia chaffeensis* key protein targets using doxycycline as a reference compound.
- Performed pharmacokinetic screening through SwissADME and BOILED-Egg analysis, and conducted molecular preparation, docking, and visualization using UCSF ChimeraX and AutoDock Vina.
- Identified EGCG, quercetin, and resveratrol as promising candidates for further investigation based on combined docking and pharmacokinetic results, while doxycycline remained the strongest binder for the 3U04 target.

**Antimicrobial Activity of Upland Kangkong (*Ipomoea reptans*) Seeds Against *Escherichia coli* and *Staphylococcus aureus***
Laboratory Research Project | Microbiology
- Investigated the antimicrobial activity of upland kangkong seed extract against *E. coli* and *S. aureus* and compared its activity with oxytetracycline and penicillin.
- Conducted antimicrobial susceptibility testing on Mueller-Hinton agar using aseptic technique, media preparation, autoclaving, bacterial inoculation, disk diffusion, incubation, and replicate cultures.
- Evaluated zones of inhibition across treatments, observing antimicrobial activity of kangkong seed extract against *E. coli* and S. aureus.

**When Eddie Meets Beetee**
Children's Science Communication Storybook | Biotechnology
- Developed a children's storybook explaining Bt eggplant and the science behind genetically modified crops through age-appropriate storytelling.
- Translated technical biotechnology concepts and current concerns raised by Bt eggplant farmers into accessible language for younger and non-specialist audiences.
- Applied science communication and narrative techniques to connect agricultural biotechnology with real-world farming experiences and public understanding of science.

## **Skills & Interests** [Note: Optional]

**Technical:** Google Workspace, Microsoft Office
**Language:** English (Fluent), Filipino (Fluent), Hokkien (B1)
**Laboratory:** Basic laboratory safety, microscopy, slide preparation, pipetting, solution preparation, data recording and observation, Animal Laboratory
**Interests:** Photography, literature, collecting cultural memorabilia

Certificate No. **20261016012**

# CERTIFICATE OF COMPLETION

This certifies that

## Adrienne Gail B. Sy

has successfully completed the **UP NSRI-BRSL Laboratory Animal Workshop**
conducted by the Biological Research and Services Laboratory,
Natural Sciences Research Institute, University of the Philippines,
Diliman, Quezon City, on October 16, 2026.

This workshop is equivalent to eight (8) hours of technical training on the following topics:
Ethical compliance & documentation • Occupational health & safety • Experimental design & statistical analysis • Care & management of lab mice • Proper handling & restraint • Drug administration and blood collection basics • Euthanasia • Necropsy • Anatomy

**Dr. Pierangeli G. Vital**
Head, BRSL

**Dr. Maria Amelita C. Estacio**
Professor and Dean, UPLB CVM

**Dr. Elmer S. Estacio**
Director, NSRI

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