

ERINNE CHERISSE CHUA JOY ONG

Education

University of Göttingen (Germany)

Master of Science in Neuroscience

Oct. 2022 – Present

- Supported by a stipend from the International Max Planck Research School

De La Salle University (Philippines)

Bachelor of Science in Biology

Sep. 2017 – Feb. 2021

- Top 10% of graduating class with cumulative GPA of 3.787/4.0

St. Stephen's High School (Philippines)

Senior High School Diploma

Jun. 2012 – Mar. 2017

- Salutatorian (2nd out of 140 students) with final year average of 96.53%

Research Experience

Max Planck Institute for Multidisciplinary Sciences (Germany)

Research intern

May 2023 – Jun. 2023

- Supervisor: Andrew Sasmita, Dr. Klaus-Armin Nave (Neurogenetics Group)
- Characterized sex-specific changes in tau pathology, gliosis, and behavioral performance in an Alzheimer's disease mouse model

European Neuroscience Institute (Germany)

Research intern

Jan. 2023 – Feb. 2023

- Supervisor: Dr. Brett Carter (Synaptic Physiology and Plasticity Group)
- Measured short-term plasticity responses of barrel cortex synapses at varying external calcium concentrations through slice electrophysiology techniques

Molecular Science Unit Laboratory – De La Salle University Center for Natural Sciences and Environmental Research (Philippines)

Undergraduate thesis student

Nov. 2019 – Oct. 2020

- Supervisor: Dr. Ma. Luisa Enriquez
- Evaluated the cytotoxic and genotoxic effects of *Citrus microcarpa* juice and essential oil extracts on three cancer cell lines

Work Experience

Wildtype Media Group (Singapore)

Staff Writer

Apr. 2021 – Aug. 2022

- Wrote two to three 500-word research highlights weekly for flagship *Asian Scientist Magazine* based on STEM journal articles
- Produced 1500-word features on scientific advancements across Asia
- Steered content direction and collaborated with clients on projects covering diverse fields, including cancer, neuroscience, 'omics, artificial intelligence

National Medical Admission Test Review (Philippines)

Instructor (Self-employed)

Nov. 2020 – May 2021

- Delivered online lectures to more than 300 students on cell biology, genetics, biochemistry, physiology, psychology, and ecology
- Developed a virtual assessment platform with over 100 sample questions

Skills

cell culture revival and maintenance, cell viability assays, genotoxicity assays, PCR, spectrophotometry, protein homology modelling, Western blot, immunostaining, fluorescence microscopy, light sheet microscopy, patch clamp electrophysiology (brain slices and primary cultures), data analysis (GraphPad Prism, AxoGraph, Fiji)

Conference Papers

Ong EC, Co CJ, Mulingbayan IM, Oyong GG, Enriquez ML. Cytotoxicity of *Citrus microcarpa* (Calamansi) peel-derived essential oil on small cell lung carcinoma, acute monocytic leukemia, and colon adenocarcinoma cell lines. Metro Manila Health Research and Development Consortium 5th International Symposium and 12th Annual Scientific Conference; 2021 Sep 24-25; Manila, PH.

Ong EC, Cabansag HB, Sacolles HS. Formative assessments as scaffolds in increasing Mathematics achievement of Grade 11 students. De La Salle University Research Congress; 2016 Mar 7-9; Manila, PH.

Selected Published Articles

Ong EC. 2022 Oct 10. Decoding signals from space. *Supercomputing Asia*. 12: 29-33.

Ong EC. 2021 Sep 30. Prioritizing patient privacy. *Asian Scientist Magazine*. 8(2): 30-35.

Ong EC. 2021 Dec 14. Laying the foundation for a resilient Asia. National University of Singapore. <http://ipur.nus.edu.sg/laying-the-foundation-for-a-resilient-asia/>

Ong EC. 2021 Jul 21. How China beat malaria. *Asian Scientist Magazine*. <http://www.asianscientist.com/2021/07/features/how-china-beat-malaria/>

Extracurricular Activities

GradMAP Philippines (STEM mentorship network)

Director for Partnerships

Apr. 2023 – Present

Mentor

Aug. 2022 – Present

- Provided one-on-one mentorship and spoke at events on pursuing STEM careers for Filipino undergraduate students
- Established collaborations, funding programs with university organizations and professional societies to increase Filipinos' access to opportunities in STEM

The LaSallian (University campus publication)

Editor in Chief

Sep. 2019 – Oct. 2020

- Substantively edited over 300 articles on science and technology, university, sports, society, and arts for 11 monthly print issues
- Streamlined workflows by introducing consolidated trackers for event coverage schedules and article development timelines
- Spearheaded human resource training through hosting workshops and consultation sessions, and developing manuals/SOPs

Project Insight (Youth organization)

Content Manager

Jun. – Oct. 2020

- Organized webinars on vaccine development, artificial intelligence, and mental healthcare with 200 attendees
- Coordinated with and tailored discussion points for global academic experts and industry practitioners as webinar panelists

Awards

Second place (out of 6 finalists), Metro Manila Health Research and Development Consortium – Oral Research Paper Competition, 2021

Jose Rizal Honors Certificate (GPA >3.6), De La Salle University, 2017-2021

First Runner Up (out of 6 teams), Ateneo Biology Cup, 2020

High Honors for STEM (grades in science subjects >95%), St. Stephen's High School – Senior High School, 2017

Best in Biology (out of 40 students), Ateneo Junior Summer Seminar, 2016