



FRANK ANGELO PACALA

PHYSICS TEACHER

CONTACT

+998 900529571

frankpacala@gmail.com

Catbalogan City, Philippines

<https://scholar.google.com/citations?user=bvFICogAAAAJ&hl=en>

<https://orcid.org/0000-0001-5774-0008>

Scopus[®] ID: 57210387609

SKILLS

- STEM Leadership
- Curriculum & Assessment Design
- Educational Technology
- Classroom & Learning Management
- Research & Publication
- Effective Communication
- Community & Extension Work

LANGUAGES

- English (Fluent)
- Filipino (Fluent)

REFERENCE

Philip Purslow

Fr. Academic Director

Email : philpurslow12@gmail.com



PROFILE

I am trained and experienced in teaching A Level Physics (9702) and IGCSE Physics (0625). I have hands-on experience teaching science, engineering, and technology subjects. I have formed, facilitated, and led student groups during the establishment of STEM programs and clubs while mentoring individual learners. I am well-versed in assessing students and developing individualized learning goals based on their needs. I consistently manage learning-focused classroom environments by establishing and clearly communicating student objectives.

I have developed comprehensive class materials, including syllabi, exams, and assignments, for up to four classes per semester. My work involves close collaboration with faculty members to maintain open communication and optimize departmental resources for sustained success. I have also designed and conducted research in STEM education to advance the field and have published numerous articles in highly reputable Scopus- and Web of Science-indexed journals.



WORK EXPERIENCE

The Presidential School in Karshi

2021 - PRESENT

Physics Teacher and Fr. Lead Teacher

- Delivered A-Level and AS-Level Physics classes using the Cambridge Curriculum; coordinated with Physics teachers across Presidential Schools on assessments and instructional goals; supported exam preparation, academic planning, and teacher mentoring; conducted extracurricular classes in Physics and English; and provided extension services and competition coaching for students.

Bahrain Technology University (Fr. AMA University) 2020-2021

Physics and Environmental Science Instructor

- Taught Physics to Mechatronics and IT students at Bahrain Technology University, integrating practical applications and interdisciplinary approaches to support engineering-focused learning and skill development.

Philippine School Bahrain

2019-2021

Physics and Science Teacher

- Teach and facilitate Grade 8 and Grade 12 students on General Science and Physics. Use different kinds of technology in lessons. Planning, developing, and executing lesson plans that reflect the Philippines' K to 12 Curriculum. Assessing and evaluating students' progress and their cognitive, skill, and affective knowledge in science to meet course standards. Establishing and maintaining standards of student behavior. Employing a variety of methodologies in teaching and instructing students, including but not limited to demonstrations, experiments, discussions, and lectures. Utilizing conventional educational equipment (e.g., books, PowerPoints) and advanced educational technologies like Google Classroom, Zoom, and Google Meet.



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WORK EXPERIENCE

Samar State University

2017-2019

Assistant Professor 1

- Handle Physics, Chemistry, and Philosophy of Science courses for technology, social science students, nursing, and pharmacy students. Planning, developing, and implementing outcomes-based education syllabus in meeting the standards of the Commission of Higher Education. Assessing students' academic progress for them to meet the course and program outcomes stipulated in the course syllabus. Conducting research works. Publishing research papers in ISI/Scopus journals and other internationally recognized journals. Coaching co-faculty members in the current trends of research publication and drafting patents and utility models. Drafting patents and utility models. Presenting paper in regional, national, and international research symposium. Conduct extension works to communities under served.



EDUCATION

Doctor of Philosophy in Science Education Major in Physics - Waiting for Graduation

2021-2026

School of Education | University of San Carlos

Master of Arts in Teaching Science Education

2014-2018

College of Education | Leyte Normal University

Bachelor of Education Major in Physics

2010-2014

College of Education | Samar State University



CERTIFICATIONS AND TRAINING

Professional Regulation Commission Teaching License

Until 2028

License No.: 100108140054

Google Certified Educator

2021-2023

Level 1

Webinar on Computational thinking

February 2025

Syiah Kuala University

Educational Practices to Promote Inquiry-Based Learning for the 21st Century Inspired by the International Baccalaureate Program

2024

University of Tsukuba



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CERTIFICATIONS AND TRAINING

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|--|------|
| Cambridge STEM Teacher Training Programme Cambridge Assessment International Education | 2024 |
| Cambridge Exam Officers' Training Cambridge Assessment International Education | 2024 |
| STEAM in the Digital Age: Innovations in STEAM Education and Technology Integration Johannes Kepler University at Linz | 2024 |
| All ears for change: Transformative practices in exploratory action research British Council | 2024 |
| Moving Education Forward Through Digital Inclusion SEAMEO INNOTECH | 2023 |



RESEARCH PUBLICATIONS

| | |
|---|-----------------------|
| Physico-chemical and microbial analysis of water in Samar mussel farms <i>The Egyptian Journal of Aquatic Research</i> | Scopus/Web of Science |
| Developing and validating an integrated three-tier multiple choice test for smartphone-based experiments in physics <i>CEUR Workshop Proceedings</i> | Scopus |
| PowerPoint-based quizzes in wave motion: Performance and experiences of students <i>Journal of Education and Learning (EduLearn)</i> | Scopus |
| Tracking the terminal velocity and energy of a parachutist: A video analysis for Physics classroom experiment <i>Journal of Physics: Conference Series</i> | Scopus |
| USING 5E INSTRUCTIONAL MODEL WITH ICT SUPPORT IN TEACHING LOWER SECONDARY STUDENTS ON THE TOPIC OF LIGHT REFLECTION <i>Information Technologies and Learning Tools</i> | Web of Science |
| Artificial intelligence in a modernizing science and technology education: a textual narrative synthesis in the COVID-19 era <i>Journal of Physics: Conference Series</i> | Scopus |



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RESEARCH PUBLICATIONS

Improving Students' Conceptual Understanding of Magnetic Fields and Science Process Skills Through Guided Exploratory Experiments Using a Smartphone
Springer Nature Switzerland

Scopus/Web of Science

THE USE OF TECHNOLOGY IN TEACHING PHYSICS TO STUDENTS WITH DISABILITIES: A SYSTEMATIC REVIEW
Information Technologies and Learning Tools

Web of Science

The Sound of G: A Method to Calculate The Acceleration Due to Gravity Using Acoustic Stopwatch
Jurnal Pendidikan Fisika Indonesia

Web of Science

The Exodus of Filipino Teachers to Uzbekistan: A Hermeneutic Phenomenological Study
Makara Human Behavior Studies in Asia

Web of Science

Development and Validation of an Instrument Assessing Physics Teachers' Beliefs, Competence, and Attitudes in Smartphone-Based Physics Experiments
CEUR Workshop Proceedings

Scopus

Development and Validation of Three-Tier Multiple Choice Test for Conceptual Understanding in Momentum and Collision
International Journal of Multidisciplinary Approach & Studies



AWARDS AND RECOGNITION

Best Innovative Teacher
Qarshi Presidential School

2022

Second Best Pitcher
Philippine Council for Agriculture, Aquatic and Natural Resources Technology Commercialization Mentorship Series Pitching Day

2019

Third Best Presenter
2019 NOSTE International Research Conference, Training-Workshop and Biennial Convention

2019



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AWARDS AND RECOGNITION

Best Paper

Samar State University In-house Review

2018

First Place

Division Training Workshop on Campus Journalism

2015



PROFESSIONAL AFFILIATIONS/MEMBERSHIPS

National Research Council of the Philippines

Philippine Physics Society

International Association of Educators and Researchers (IAER)

International Economics Development Research Center

IOSRD International Journal of Physics Editorial Board



PORTFOLIO

<https://drive.google.com/drive/u/2/folders/1mf0aECL42p0qVIsFA-jyb0-jCdHZCemJ>



ADDITIONAL REFERENCES

Dr. Michelle Gaddy

Consultant of the Center of Continuing Professional Development Of Uzbekistan

email: saltbrush2@gmail.com

Dr. Florabelle B. Patosa

*Dean, College of Arts and Sciences
Samar State University*

email: fbpatosa@yahoo.com