

ARLENE JOY SUGANO BACSAN

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**Research Objectives**

Licensed Chemist and Instructor at Visayas State University, strenuously exploring Chemistry development through considering research experiences particularly Feed Chemistry, outside of the country for personal and career development.

Professional Experiences

Instructor**August 1, 2019 until Present**

Department of Pure and Applied Chemistry (DoPAC)
Visayas State University

Educating students on Chemistry theories, principles and applications aligned to their selected fields of specialization.

Constructing and developing instructional materials to establish written curriculum in the classroom and effectively implementing through student – centered learning.

Incorporating values and proper discipline in the classroom.

Assessing and guiding students in thesis research activities for their academic development in applying Chemistry.

Quality Assurance Officer**January 22, 2018 – April 22, 2019**

Jojie's Bakeshop Commissary

Supervised Cassava flour production for food delicacies baking and local supply for food companies with cassava products.

Established and implemented Good Manufacturing Practices to provide excellent quality of products in the market.

Developed new food products, particularly breads with enriched nutrients to promote a healthy community.

Research Assistant**March 5, 2016 – January 15, 2018**

Philippine Carabao Center – Ubay Stock Farm
Research Project – based

Evaluated the performance of feed formulation to the growth, reproduction and milk production of Buffaloes.

Supervising the feed production in all ages of Buffaloes assuring its excellent quality.

Gathered weight and physical data of the heifers and milk produced of dairy Buffaloes in daily basis as supplementary data of the research study.

Developed fermented feeds using cassava pulp with appropriate amount of bacteria to promote organic

lifestyle of the livestock in a healthy way but cheaper cost.

Assisted the Research leader in writing literature review, discussion and conclusion based on the data gathered for presentation and publication.

Examined semen in microscope to check the mobility of sperm cells before utilizing them in Artificial Insemination of Buffaloes.

Chemical Information Analyst
Innodata Knowledge Services, Inc.

November 26, 2013 – September 15, 2014

Summarized Chinese patents into company's format ready for indexing and data processing.

Evaluated and corrected chemical terms indicated in the patent.

Chemist
Marcela Farms Incorporated – Feedmill Division

November 4, 2010 to May 9, 2013

Performed Proximate Analysis (Crude Protein, Crude Fat, Crude Fiber, Ash and Moisture) and Mycotoxin Analysis of raw materials and finished feed products for quality assurance.

Managed and controlled feed formulation on different ration to assure the appropriate raw material amount every batch mixing.

Computed the production cost and labor cost of all types of ration for proper pricing in the farms and market.

Contributed on the Establishment of Manufacturing SOPs and Protocols in production and laboratory areas.

Implemented Good Manufacturing Practices in production and laboratory area for efficient and good environment of work.

Research Encounter

Undergraduate Thesis Student Research Committee – Member
Synthesis, Characterization, and Antifungal Properties of Copper (II) diphenyldithiocarbamate hydrotris (3,5-dimethylpyrazol-1-yl) borate Complex
(January – June 2020)

Research Assistant
Growth and Reproductive Performance on Hiefer with Mineral Block and locally formulated Minerals
(January 2017 – January 2018)

Research Assistant
Performance of Dairy Buffaloes Fed Ration with Baker's Yeast (*Saccharomyces cerevisiae*) Solution
(March 2016 – January 2018)

Undergraduate Thesis Student Research Author
Shelf Life of Chitosan-Coated "Latundan" (*Musa acuminata* AA.)
(June 2009 – March 2010)

Education

University of Bohol <i>Professional Education units</i> <i>Bachelor of Secondary Education</i> <i>Major in Physical Sciences</i>	November 12, 2018 – March 31, 2019
Visayas State University Main Campus <i>Bachelor of Science in Chemistry</i>	June 5, 2006 – April 2, 2010
Bantayan National High School <i>Secondary Education</i> <i>Graduated with honors</i>	2002 - 2006
Bantayan Central Elementary School <i>Elementary Education</i> <i>Graduated with honors</i>	1996 - 2002

Academic Honors and Scholarships

DOST – SEI JLAP Recipient Department of Science and Technology-Science Education Institute Junior Level Assistance Program	S.Y. 2008 – 2009 until S. Y. 2009 – 2010
College Honor and Scholar Visayas State University	2nd Semester S.Y. 2006 – 2007 to S.Y. 2007 – 2008
University Honor and Scholar Visayas State University	1st Semester, S.Y. 2006-2007

License

RA 1080 Registered Chemist	September 8, 2010
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Trainings/Seminars/Workshop/Conferences

9th Professional Summit Webinar on October 23 – 24, 2020	
Training - Workshop on Course Modules Production for Flexible Learning in Higher Education Institutions (HEIs) Webinar Series on June 11-12 & 15-19, 2020	
JADAM Ultra-low-cost Training Workshop October 9 – 11, 2017 at Bohol Island State University Bilar, Bohol	
Appreciation Course on Integrated Diversified Organic Farming Systems October 17 – 19, 2016 at Maribojoc Organic Farm, Maribojoc, Bohol	

Research and Publication Writeshop

April 23 – 24, 2016 at RDE Hall, Visayas State University, Baybay City, Leyte

Additional Activities

Chemical Society (ChemSoc)

Visayas State University

Member (S.Y. 2006-2010) & Secretary (S.Y. 2008-2010)

Facilitate Chemical Show and Quiz bee

Prepare Paper documents for Society's activities

Department Of Science and Technology Scholar Society (DOSTSS)

Member (S.Y. 2008-2010)

Organized Quiz show

Skills

Excellent in Desktop Publishing, making use of the following software – MS Office (Word, Excel, PowerPoint)

Excellent in conducting Proximate Analysis in Feeds:

Crude Protein using VELP Kjeldahl System, Crude Fat, Crude Fiber using Ankom Technology, Ash and Moisture

Excellent in testing the hardness of feeds using Homogenous Test of Mixing using Micro Tracer dye and equipment

Excellent in conducting Mycotoxin (Aflatoxin and Zearalenone) Analysis of Feeds using ELISA Test kit and Analyzer

Average in operating UV/Vis Spectroscopy, Atomic Absorption Spectroscopy and Anodic Stripping Cyclic Voltammetry

Excellent in conducting water analysis (COD, DO using Azide Modification Method, Silica using Hach Method, TSS)

Very Good Verbal and Written Communication in English and Filipino

Laboratory and Classroom Management

References

Candelario L. Calibo, Ph.D – Visayas State University Main Campus

College Dean – College of Arts and Sciences

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Jacob Glenn F. Jansalin – Visayas State University Main Campus

Head – Department of Pure and Applied Chemistry

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Andresito D. Acabal – Visayas State University Main Campus

Professor and Thesis Adviser

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Personal Information

Date of Birth:	December 07, 1990
Gender:	Female
Nationality:	Filipino
Civil Status:	Married
Position:	Instructor I
Institution:	Visayas State University
Institution Address:	Visca, Baybay City, Leyte, Philippines 6521-A