Jude Bulawan Rola

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EDUCATIONAL BACKGROUND

Postgraduate
Postgraduate Certificate in Academic Practice (PGCAP)
University of Liverpool, United Kingdom
under the CHED-funded Project: "Transformative Academic Practice for Higher Education in the Philippines (TAPHEP)"
July 2023

Doctorate
Doctor in Information Technology (DIT)
Cebu Institute of Technology-University, Cebu City, Philippines
March 2020

Master's Degree
Master of Science in Information Technology (MSIT)
Hannam University, South Korea
February 2005

College
Bachelor of Science in Computer Engineering (BSCOMPE)
Cebu Institute of Technology, Cebu City, Philippines
October 2000

WORK EXPERIENCES

Associate Professor IV
Visayas State University
Department of Computer Science and Technology, Baybay City, Leyte
November 2008 – present

Dean, Faculty of Computing
Visayas State University
January 2025 - present

Instructor I
Southern Leyte State University – Tomas Oppus
Department of Mathematics, Tomas Oppus, Southern Leyte
December 2001 – November 2008

IT Section Head
Southern Leyte State University – Tomas
San Isidro, Tomas Oppus, Southern Leyte
2006-2007

INSTITUTIONAL AND DEPARTMENTAL COMMITTEE INVOLVEMENT

Member
- **VSU, RDITWG for Information Technology** (2023 – present)
- **VSU, RDITWG for Higher and Advanced Education** (2025)
- **VSU, Deputy Quality Management Officer for FOC** (2025)
- **VSU, TWG in harnessing the RDLead Program of the DOST's Accelerated R and D Program for Capacity Building of R and D, Innovation and Technology Protection/Utilization** (2025)
- **VSU Management Review** (2025)
- **VSU Administrative Council** (2025)
- **VSU Scholarship Committee** (2024)
- **VSU Uniform Committee** (2024)
- **VSU Search Committee for President** (2023-2024) and Search for Private Sector Reps (2015)
- **VSU Committee on Distance Education** (2011 – 2012)
- **VSU Housing Commission** (2011 – 2016)
- **DCST Curriculum Committee**, VSU (2012- present)
- **DCST Personnel and Scholarship Committee** (2012 – present)
- **DCST Research, Development, and Innovation Committee** (2021 – 2024)
- **DCST IMDC - Mathematics, Computing, and Language Theory** (2021 – 2024)
- **DCST IMDC - Computer Architecture, Connectivity, and Design** (2021 – 2024)

Chair/Member
- **VSU Score Statistics and Computerization for Institutional and Regional Student Competition** (2009 – present)

Chair/Coordinator
- **DCST Academic Practice (Teaching and Support to Learning)** (2023 – present)
- **DCST Sports and Socio-cultural Committee** (2022 - 2023)
- **DCST IMDC Data Management and Security** (2021 – 2014)
- **DCST Internship Program Coordinator** (2021 – 2024)
- **College of Engineering and Technology Internship Committee, VSU** (2021 – 2024)
- **VSU Information Technology and Supplies** (2011-2016, June 2024-present)
- **DCST Computer Center Manager** (2011 – 2017)
- **SLSU-TO Computer Training Coordinator** (2005 – 2008)
- **SLSU-TO Computer Laboratory In-Charge** (2005 – 2008)

COURSES HANDLED

Visayas State University (VSU)
> Data Mining, Networks and Communication, Quantitative Method, Research Planning and Manuscript Preparation, Principles of Computer Programming for Chemistry and Engineering, Basics on IT, Logic Circuit Design, Computer Architecture, and Intro to Computer Organization and Assembly Language Prog

Southern Leyte State University – Tomas Oppus (SLSU-TO)
> Fundamentals of Problem Solving and Prog 1 and 2, Computer in Mathematics Education, Introduction to Computer, Information Technology

RESEARCH/ PUBLICATION/ PATENT APPLICATION

Invention Patent Application
> **System and Method of Detecting Disease in Crops Based on an Improved Convolutional Neural Network**
> No: 12024050542 / Application date: 7 August 2024

Research Output Turned-over/Shared to Recipient Agencies

Visayas State University (VSU) Learning Guide Tracking and Monitoring System Using Quick Response (QR) Code (adviser), 2021, recipient: VSU

Desktop-based Yellow Hybrid Corn Optimized Nutrient e-Advisor Using Modified Mitscherlich Equation (developer), 2018, recipient: Philippine Nuclear Research Institute

Mobile-based Cacao *Phytophthora palmivora* Disease Recognizer (project leader), May 2023, assigned ownership to Visayas State University (VSU) through a Deed of Assignment.

Article Contributor

Convolutional Neural Network Model for Cacao Phytophthora Palmivora Disease Recognition
International Journal of Advanced Computer Science and Applications (IJACSA), Volume 15, Issue 8
August 2024 *(presented in CVCI 2024, Bangkok, Thailand, January-February 2024)*

The Science and Information (SAI) Organization Limited
A comparative analysis of ARIMA and Feed-forward Neural Network Prognostic Model for Bull Services
Advances in Science, Technology and Engineering Systems Journal (ASTESJ)
Special Issue on Multidisciplinary Sciences and Engineering (Scopus- Indexed)
April 2020

Improving Bull Services Success Rate of the Philippine Carabao Center-Visayas State University Through Information and Descriptive Analytics System
Journal of Advanced Research in Dynamical and Control Systems (Scopus -Indexed)
February 2020
(presented in Global Conference on Computing & Media Technology (GCMT) 2019, KL, Malaysia)

ARIMA Prognostic Application to Bull Services for Resource Usage Optimization
Book of Proceedings - 2019 International Conference on Multimedia Analysis and Pattern Recognition (MAPR), IEEE Xplore Digital Library (Scopus- Indexed)
May 2019

Application of Modified Mitscherlich Equation to Yellow Hybrid Corn Optimized Nutrient e-Advisor
Journal of Science, Engineering, and Technology (ASEAN Citation - Indexed), SLSU
2018

Design of a Web-based System on Student Admission Application Using ASP and XML
SLSU-TO Journal of Education
June 2006

Scientific Paper/Poster Presentation

Mobile-based Cacao *P. palmivora* Disease Recognizer Using Convolutional Neural Network Model
6th International Conference on Computer Vision and Computational Intelligence (CVCI 2025)
The Education University of Hongkong, Hongkong
January 10 – 12, 2025

Convolutional Neural Network Model for Cacao *P. palmivora* Disease Recognition
5th International Conference on Computer Vision and Computational Intelligence (CVCI 2024)
NIDA, Bangkok, Thailand
January 29 – 31, 2024

Best Poster Qualifier
Mobile-based Cacao Phytophthora palmivora Disease Recognizer
35th Joint ViCARP-RRDEN Regional (Region 8) RDEI Symposium
November 30, 2023

Visayas State University RDEI 2023 In-House Review
Mobile-based Cacao *Phytophthora palmivora* Disease Recognizer
May 10, 2023

Progressive Web Application for Learning Guide Delivery Tracking and Monitoring Using QR Code
International Science, Technology and Engineering Conference (ISTEC) 2022
December 7-9, 2022

Application of Modified Mitscherlich Equation to Yellow Hybrid Corn Optimized Nutrient e-Advisor
Cebu Institute of Technology – University Research Congress
October 2018

Completed and Ongoing Institutional Research

Farm to Table: A Management Information System for Farmers and Food Business Establishment in Baybay City, Leyte
Component Leader, *Food Business Establishment Profiling (2024 - 2025)*

MATEMATIKA: Leveraging Math Teaching-Learning Aids for Elementary Students in the Post-Pandemic Time
Component Leader, *Development of a Self-Paced Learning Kit app for Elementary Math (2024 – 2025)*

Mobile-based Cacao *Phytophthora palmivora* Disease Recognizer
Project Leader, VSU, Baybay City, Leyte (completed, 2023)

Article/Proposal Reviewer

International Journal of Advanced Computer Science and Applications (IJACSA)
The Science and Information (SAI) Organization, Summit House, Woodland Park, Bradford Road, Cleckheaton, BD19 6BW, United Kingdom, November 2024 - present

Advances in Science, Technology and Engineering Systems Journal
Walnut, California, USA, 2020 – present

Computer Science Teacher Association conferences
Chicago, Illinois, USA, 2023 – present

PRISM Journal
Negros Oriental State University, Dumaguete City, Philippines, 2021

Journal of Computing and Innovation
Leyte Normal University, Tacloban City, Leyte, Philippines, 2019

Graduate and Undergraduate Student Research Committee

Chair/ Member/ Adviser
BSCS, VSU, 2009 - present

Chair/ Member
BSCS and COMP-E, Western Leyte College, 2012- present
MSIT, State University of Northern Negros (formerly NONESCOST), 2022-2023
BSIT, Franciscan College of the Immaculate Conception, Baybay City, Leyte, 2010

International Conference

Technical Committee Member
6th International Conference on Computer Vision and Computational Intelligence (CVCI 2025)
The Education University of Hongkong, January 2025

Session Chair
Session 3: *Computational Models and Algorithm Design in Computers and Information Systems*
5th International Conference on Computer Vision and Computational Intelligence (CVCI 2024)
NIDA, Bangkok, Thailand, January 30, 2024

Panel Member
1st International Conference in Multidisciplinary Research in Science and Technology, Administration, Education and Social Sciences, State University of Northern Negros (formerly NONESCOST), Sagay Negros Occidental, June 26, 2021

VSU Research Technical Working Group (TWG)

Co-chair
Information and Communications Technology, 2023 - present

External Instructional Material Reviewer

Automata Theory and Formal Languages, Introduction to Game Development, Applied Intelligent Systems and Discrete Math, Bohol Island State University, 2024 - 2025

AWARDS/RECOGNITION RECEIVED

Fellow of the Higher Education Academy (FHEA)
Advance HE, United Kingdom, July 2023

Research Publication Award (Scopus-indexed)
National and International categories, Visayas State University, 2019 and 2020

Best Presenter awardee
Article: "Analyzing MOODLE Users Logs in Blended Courses "
International Conference on Methodological Advances in Research, USJR, Cebu City, July 24-26, 2018

Outstanding Overall Rating of Teaching Performance Evaluation (TPES) by Students
Academic Year: 2020-2021, 2021-2022
Teachers Day, October 2022

EXTENSION ACTIVITIES AND TRAININGS CONDUCTED

Resource Person

MIRU Systems Election Automation Master Trainer
2025 Philippine National-Local Election automation

DESO Technical Support Staff Training for 2025 Philippine National-Local Election automation
Tacloban City, February 17 – 21, 2025

DESO Technical Support Staff Trainers' Training for 2025 Philippine National-Local Election
Casa Pilar, Boracay, Aklan, November 23, 2024

Seminar-Workshop on MOODLE Classroom Development
DCST, VSU, September 4-6, 2024,

Seminar-Workshop on Academic Practice (SWAP) for Negros area
Activity Hall, Silliman University, March 31, 2023

Philippine SUC Student Evaluation of Teaching (SET)
Hy-Flex Session at the University of Liverpool with UoL PGCAP faculty-students and PGCAP team Philippines, University of Liverpool, United Kingdom, November 2022

Writeshop on Extension Programs for Engineering and Information Technology
Surigao del Norte State University, March 17-18, 2021

Basic Computer Literacy Training
Organized by: National Computing Center, Philippine Community eCenter Network
Visayas State University, Baybay City, Leyte, December 2011

Computer and Internet Literacy Course for DEPED and Barangay Officials (MAGPANGUAPA)
Baybay City, Leyte, 2014 - 2016

Digital Ethics Webinar VIFES Educators
Baybay City, Leyte, June 29, 2020

DYDC 104.7 FM Radio Program of the College of Engineering and Technology "Pangutan-a si Engineer!
Visayas State University, Baybay City, Leyte, 2020-2021

MOODLE Training for the VSU System
Visayas State University, Baybay City, Leyte
Together with my DCST family, I played a crucial role in developing the capabilities of VSU system educators to implement the Learning Management System (LMS) MOODLE for both asynchronous and synchronous classes (pandemic to present).

Training Manager/ Organizer/ Facilitator

Monitoring and Evaluation Component *(focal person)*
Project: ICT Capacity Building for the DEPED ICT Core Team of the Baybay City Division, 2024-2028

Linkup Day with Full Scale company *(organizer)*
CET Activity Hall, VSU-Baybay, November 10, 2023

International Conference on Academic Practice in Higher Education (ICAPHE) *(facilitator)*
Acacia Hotel Manila, Commerce Avenue, Alabang, Muntinlupa City, June 30, 2023

Seminar-Workshop on Academic Practice (SWAP) for Region 8 *(Training Manager)*
CCE-1st floor, VSU-Baybay, March 17, 2023

iSchools Program of the Commission on Information and Communications Technology (CICT), 2010 - 2012:
- Project Monitoring and Evaluation IS Users' Training
- Project Briefing for COA Auditors / Web Development Training / PC Recycling Training
- Sustainability Planning Workshop / Basic Online Writing / ICT4BE / Project Closeout

Philippine National and Local Election

MIRU Canvassing and Consolidated System Technical Support Staff
MOBC, Hindang, Leyte
Expected May 2, 2025

COMELEC CCSO OPERATOR
Board of Canvassers, Javier, Leyte
Javier, Leyte, 2022

COMELEC CCSO TECHNICIAN
Board of Canvassers, Baybay City
Baybay City, Leyte, 2016

QUALITY ASSURANCE EVALUATOR

Played a substantial role in enhancing the curriculum offerings for Computer Science, Computer Engineering, Electrical Engineering, BSIT, MSIT, and MSCS in several State Universities and Colleges (SUCs) in the country.

Senior Accreditor
Accrediting Agency of Chartered Colleges and Universities in the Philippines (AACCUP)
as Overall Coordinator, Team Leader, Lead Accreditor 2016 - present

Member
Regional Quality Assurance Team (RQAT)
Information Technology and Engineering Education and ETEEAP, CHED-Region 8
2012 - present

Significantly contributed to the improvement of the office processes and CS and non-CS curriculum offerings at the Visayas State University.

ISO Internal Quality Auditor
Visayas State University
- 2024 Internal Quality Audit
    - CME, DOH, ARIC, DP

- 5th Internal Quality Audit Observer
    - Risk and Opportunities Office, September 19, 2023
    - Plant Disease Diagnostic Laboratory Office, September 25, 2023

SEMINARS/TRAININGS ATTENDED

Engaged actively in both local and international professional development (VSU, SLSU, Asia Open RAN Academy, USAID, Computer Science OJT partners, Yeungjin Junior College, Hannam University, Cisco, PhilNITS, DICT, CHED, Analytics and AI Association of the Philippines, ACM, DOST, PSITE, TESDA, AACCUP, University of

Liverpool, Advance HE of the United Kingdom, Coursera, DataCamp, CSTA, PeLS, IEEE, ACM, ICPEP, PCS, SEAMEO, CICT, etc.) encompassing Information Technology and academic practice, through both onsite and online activities.

LINKAGES

Region 8 Master Trainer for ACM and CCS
MIRU Systems
2025 Philippine National-Local Election Automation
October 2024 – May 2025

University of the Philippines – Los Baños, CHED, and University of Liverpool
Member - TAPHEP, 2021 – 2023
- *Developed the Module 1 (Context) for national roll out of the SWAP*
- *Developed Module 2 (Facilitating Learning) for the national rollout of the Fundamentals Program*

STEKOM University
Partner faculty - Computer Networks and Data Science, 2023 - present

Accenture, Full Scale, Telmo, Xeleqt, Alliance, Bootyard, AI4GOV, Alliance, WELA, High6, CVISNET, DOST, and Pixel8
Focal Person - Computer Science On-the-Job Training/Internship, 2021 - present

Commission on Information and Communications Technology (CICT)
Training Manager/ Resource Person/ Facilitator, iSchools Project, 2010 – 2012

CERTIFICATION

- Internal Quality Audit, 19011:2018
- Mikrotik – MTCNA, MTCRE, MTCUME
- Microsoft Specialist – MW Word and Excel
- International Computer Driving License – Asia
- CCNA 1, CiSCO Systems Networking Academy
- TESDA Computer Operation Assessor
- TESDA Computer Operation Trainer
- TESDA Personal Computer Operator NC II

AFFILIATION/ MEMBERSHIP

- National Research Council of the Philippines
- Analytics and AI Association of the Philippines
- Philippine Society of Information Technology Educators
- Computer Science Teacher Association
- VSU- Faculty Advancement Network *(officer)*
- Transformative Academic Practice for Higher Education Community of Practice (CoP)
- VSU- Faculty Union
- Asian Society of Teachers for Research
- Association of Computing Machinery
- Institute of Electrical and Electronics Engrs.
- Institute of Computer Engineers of the Phil
- Philippine Computer Society

JUDE B. ROLA
February 12, 2025