curriculum vitæ of Denxybel Montinola

⊠ denxybel_montinola@chonghua.com.ph
□ +639772385575 in Montinola D. ★ G-Montinola D.

EDUCATION

	LDUCKTION	
ec. 2023 – Present	Master of Business Administration (Cand.)	University of Western Australia, Australia
b. 2020 – Oct. 2021	Master of Medical Physics (Distinction)	University of Sydney, Australia
	Thesis title: "Investigation of small-scale radiotherapy dose deposition in the lung: Monte Carlo Simulation"	
n. 2014 – May. 2019	B.Sc. in Applied Physics (Cum Laude)	University of San Carlos, Philippines
	Thesis title: "Rheological characterization of carrageenan-pectin binary mixture in linear and nonlinear viscoelastic regimes"	
	Work Experience	
ov. 2023 – Present	Diagnostic Imaging Physicist IV	Chong Hua Hospital, Philippines
	Chong Hua Hospital - Fuente and Cancer Center, Department of Radiology and Nuclear Medicine	
eb. 2022 – Present	Assistant Adjunct Professor IV	Cebu Doctors University, Philippines
	College of Allied Medical Sciences	
apr. 2023 – Oct. 2023	Quality Assurance Manager	CEBU DOCTORS' UNIVERSITY HOSPITAL, PHILIPPINES
	Cebu Doctors University Hospital and HappyDoc Diagnostics	
Iay 2023 – July 2023	Research Consultant (Contract)	Aboitiz Equity Ventures Inc., Philippines
	Office of the Group of President	
ept. 2021 – Oct. 2023	Medical Physicist	Cebu Doctors University Hospital, Philippines
	Center for Nuclear Medicine and PET-CT Facility	
	Internship	
. 2020 – Jun. 2021	Postgraduate Intern	University of Sydney, Australia
	Australian Cancer Research Foundation Image X Institute	
. 2019 – Aug. 2019	Summer Research Intern, Institute of Biological	Chemistry Academia Sinica, Taiwan
or. 2017 – May. 2019	Undergraduate Intern, Medical Biophysics Labor	ratory University of San Carlos, Philippines
	Published Peer-Reviewed Journal Articles	
ıl. 2019 – Aug. 2019 .pr. 2017 – May. 2019	Summer Research Intern, Institute of Biological Undergraduate Intern, Medical Biophysics Labor	Chemistry ACADEMIA SINICA, TAI catory University of San Carlos, Philipp

Authors who equally contributed to peer-reviewed journal articles are marked with a † .

- Montinola D., McNamara AL, Kuncic Z, Byrne HL (2022) Investigation of micron-scale radiotherapy dose deposition in the lung: effect of magnetic field and nanoparticles - a Monte Carlo Simulation . Front. Phys. doi:10.3389/fphy.2022.835016
- 2. Roque AM †, Montinola D†, Geonzon L, Matsukawa S, Lobarbio CFY, Taboada EB, Bacabac RG, (2022) Rheological elucidation of the viscoelastic properties and network interaction of mixed high-methoxyl pectin and kappa-carrageenan gels. Food Hydro. doi:10.1016/j.foodhyd.2022.107647

CERTIFICATES

Completion, Quality Control and Dosimetry in Digital Radiology By International Atomic Energy Agency (IAEA)

Completion, Diagnostic Reference Levels in Medical Imaging By International Atomic Energy Agency (IAEA)

SKILLS

- Experienced in Monte Carlo simulation using TOPAS (Geant4 software toolkit)
- · Knowledgeable in handling Siemens, Philips, and GE diagnostic imaging systems
- Experienced in handling and operation of molecular and cellular biology equipment and techniques: pipetting, bio-safety, cell culture and reconstitution, protein over-expression and purification, binary gel mixing, and 3D printing
- Acquainted with MatLab, Pymol, LabVIEW, Origin Lab, Wings 3D, LaTeX and Microsoft Office
- · Can work individually and with multifaceted team

SIGNIFICANT ACHIEVEMENTS

2nd Place, Oral Presentation Category, Philippine Conference in Medical Physics

Awardee, Asia Pacific Youth Exchange and Global Social Innovation Idea Competition - Korea

Recipient, Department of Science and Technology - Science Education Institute, Foreign Graduate Scholarship in Priority Field in Science and Technology

Awardee, Department of Science and Technology - Bank of the Philippine Islands National Science Awards

Awardee, Ten Outstanding Students of the Philippines

Awardee, The Outstanding Graduate, 36th University of San Carlos Excellence Awards

Awardee, The Outstanding Leader, 35th University of San Carlos Excellence Awards

Verbal Commendation Awardee, Asia Youth International Model United Nations - Thailand

Best Poster Presentation on Physics Concept and Education, 19th National Physics Conference, Samahang Pisika ng Visayas at Mindanao

President, University of San Carlos, Carolinian Physics Society

Senator, University of San Carlos, School of Arts and Sciences Council

SCIENTIFIC/CONFERENCE PAPERS

- Montinola D. and Byrne H. (2023). "Investigation of Dose Deposition in the Lung Due to Nanoparticle Clustering on MRI-Linac with Varying Electron Source - A Monte Carlo Simulation", Proceedings of Philippine Conference in Medical Physics, Manila, Philippines.
- Montinola D., Lan K., Qui Y.H., Ko K.T., Draczkowski P., Sriramoju M.K., Puri S., Hsu S.T.D. (2019). "BAP1 Mutants: Purification, Functional Characterization, and Determination of Its Structure Using Cryogenic Electron Microscopy", Proceedings of Taiwan International Graduate Program International Internship Program, Academia Sinica, Taipei, Taiwan.
- Roque, A.M., Montinola D., Bacabac R.G., Lobarbio C.F. (2018). "Rheological Characterization of Mango Peel Pectin Extracted at Different pH". Proceedings of the 37th Samahang Pisika ng Pilipinas, National Physics Conference, Bohol.
- 4. Montinola D., Roque A.M., and Bacabac R.G. (2018). "Linear rheological characterization of commercial apple pectin", Proceedings of the 20th SPVM National Physics Conference, Almont Inland Resort, Butuan City.

2023

2020

2023

2023

2019

2018

2017

2016

Denxybel Montinola Curriculum Vitæ

5. Abac A.G.[†], Legaspi C.R.B.[†], **Montinola D.**[†], and Pastor M.G. (2017). "Global temperature anomaly, carbon dioxide concentration, and sea level variation modelling and projections", Proceedings of the 19th SPVM National Physics Conference and 5th International Meeting on Complex System, University of San Carlos, Cebu City.

SERVICE TO THE SCIENTIFIC COMMUNITY

The Department of Surgery Conference, Cebu Doctors University Hospital, Introduction to Quality Assurance in Healthcare: Ensuring Excellence in Patient Care, 2023 Speaker

Technical Organizer 7th IUPAP International Conference on Women in Physics 2020

Australasian College of Physical Scientists and Engineers in Medicine (ACPSEM): Practical Image

Technical Organizer Registration 2020

MedPhys20: The 15th Student Research and Education Symposium of the New South Wales and Australian Capital Territory Branch of the ACPSEM 2020 Technical Organizer

University of San Carlos-Tokyo University of Marine Science and Technology Joint

Organizer and Speaker Mini-Symposium on Food Hydrocolloids and Soft Matter 2018

Affiliation

Philippine Society of Nuclear Medicine - Cebu Chapter 2022-2023 President

Society of Medical Physicist in the Republic of the Philippines Member

Philippine Society of Nuclear Medicine Member

In the Media

40 Under 40: Meet the new breed of game changers in Cebu (Tech Innovation)

Link: bit.ly/dmsunstar

These Simple Innovations Could Be Game Changers for the Environment

Link: bit.ly/dmvicecom

References

Ms. Rhodesa U. Cruzet

Medical Physicist and Radiation Protection Officer, Cebu Doctors' University Hospital

phone: +639275912845

e-mail: rhodesacruzet@gmail.com

Dr. Hilary Byrne

Program Manager, Research Fellow ACRF Image-X Institute, The University of Sydney

phone: +61431876614

e-mail: hilary.byrne@sydney.edu.au

Prof. Rommel G. Bacabac

Professor and Principal Investigator, Medical Biophysics Laboratory, University of San Carlos

phone: +639177023956 e-mail: rbacabac@usc.edu.ph