

Name	Nipon Saiyo, M.Sc.				
Thai name	อาจารย์นิพนธ์ สายโย				
Position	Lecturer				
Responsibility for School	Curriculum lecturer				
Email	nipon.sai@cra.ac.th				
Expertise	Radiation Therapy, Radiation Dosimetry, and AI application in Radiotherapy				
Research Interest	Patient Specific QA, In vivo dosimetry, EPID portal Dosimetry, Organ dose assessment of IGRT, AI for radiation dosimetry in radiotherapy				
Educational Background					
Education level	Graduation year	Education field	University/School	Province	Country
Doctoral degree	Studying	Ph.D. candidate in Health Sciences (Clinical Quantum Technology)	Kanazawa University	Ishikawa	Japan
Master's degree	2016	M.Sc. Medical Physics	Naresuan University	Phitsanulok	Thailand
Bachelor's degree	2013	B.Sc. Radiological Technology the 1st honor	Naresuan University	Phitsanulok	Thailand
Upper secondary education	2009	Science-Math	Navamindarajudis Matchim School	Nakhon Sawan	Thailand
Lower secondary education	2006		Navamindarajudis Matchim School	Nakhon Sawan	Thailand
Work Experience					
Start year	End year	Position	Organization	Province	Country
2021	2023	Assistant to Dean for Student Affairs	Faculty of Health Science Technology, Chulabhorn Royal Academy	Bangkok	Thailand
2018	Present	Lecturer	School of Radiological Technology,	Bangkok	Thailand

			Faculty of Health Science Technology, Chulabhorn Royal Academy		
2015	2018	Medical Physicist	Chulabhorn Hospital, Chulabhorn Royal Academy	Bangkok	Thailand
Publication					
Year	Journal name	Title			
2016	Science and Technology Journal	Nipon Saiyo , Sangutid Thongsawat and Patsuree Cheebsumon.(2016).1D Beam Profile Correction Method of Portal Images Dosimetry in Symmetric Square Field for 6 MV Photon Beams. Science and Technology Journal. Naresuan University, 24(2),72-79			
2017	Songklanagarind Medical Journal	Thadpong Chanton, Sangutid Thongsawat, Nipon Saiyo and Nuntawat Udee. (2017). Evaluation of Dosimetric Characteristics of Electronic Portal Imaging Device (EPID) for Flattening Filter Free (FFF). Songklanagarind Medical Journal. Volume 35 No.4 (361-371)			
2019	IOP Conf. Series: Journal of Physics	S Thongsawat, T Chanton, N Saiyo and N Udee. (2019) Development of EPID-based dosimetry for FFF-beam verification in radiation therapy. IOP Conf. Series: Journal of Physics: Conf. Series 1285 (2019) 012031.			
2021	Life	Thongsawat S, Chanton T, Saiyo N , Udee N. Planar EPID-Based Dosimetry for SRS and SRT Patient-Specific QA. Life. 2021 Nov;11(11):1159.			
2021	Chiang Mai Med J	Saiyo N , Thongsawat S, Changphong P, Khotsawan T, Nilsetkurawat N, Phongphiriyadecha K. Enhance dynamic wedge verification by using electronic portal imaging device. Chiang Mai Med J. 2021Apr.1;60(2):175-86.			
2022	Journal of Medical Imaging and Radiation Sciences	Sudchai, W., Kheonkaew, B., Prabsattroo, T., Saiyo, N. , Kawvised, S., Pairodsantikul, P., ... & Rattananrungruangchai, N. (2022). Measurements of effective dose and entrance surface dose in diagnostic radiography using OSL dosimeter. Journal of Medical Imaging and Radiation Sciences, 53(4), S18-S19.			
2024	Radiation Physics and Chemistry	Paduka, S., Thongsawat, S., Janthawanno, P., Khaengrod, R., Ketphan, K., & Saiyo, N. (2024). Assessment of organ doses from head and neck cone-beam computed tomography (CBCT) in			

		adaptive radiation therapy: A phantom study. Radiation Physics and Chemistry, 215, 111338.
2024	Radiation Physics and Chemistry	Saiyo N , Thongsawad S, Jearaprasertporn R, Buakao C, Janthawanno P, Pairodsantikul P, Jaermsri S, Piantham W, Paduka S. Evaluation of normal organ doses for extended kV-CBCT protocol in para-aortic region treatment using nanoDot dosimeter. Radiation Physics and Chemistry. 2024 Sep 1;222:111850.
2025	Physics and Imaging in Radiation Oncology	Saiyo, N. , Kojima, H., Noto, K., Isomura, N., Tsukamoto, K., Yamaguchi, S., ... & Takemura, A. (2025). Detection of the failed-tolerance causes of electronic-portal-imaging-device-based in vivo dosimetry using machine learning for volumetric-modulated arc therapy: A feasibility study. Physics and Imaging in Radiation Oncology, 100785.
2025	Radiological Physics and Technology	Saiyo, N. , Assawanuwat, K., Janthawanno, P., Paduka, S., Prempetch, K., Chanphol, T., Sakchatchawan, B., & Thongsawad, S. Decision support using machine learning for predicting adequate bladder filling in prostate radiotherapy: a feasibility study. Radiol Phys Technol (2025). https://doi.org/10.1007/s12194-025-00916-z
Teaching Course		
Student level	Course code	Course name
Undergraduate	CHRT 403	Dosimetry and Radiation Treatment Technique
Undergraduate	CHRT 404	Instruments and Quality Assurance in Radiotherapy
Undergraduate	CHRT 405	Radiotherapeutic Technique and Clinical Application 1
Undergraduate	CHRT 302	Basic Radiation Protection
Undergraduate	HTRT 1102	Radiation Physics
Undergraduate	HTRT 1103	Radiation Dosimetry
Undergraduate	CHRT 403	Dosimetry and Radiation Treatment Technique
Undergraduate	CHRT 404	Instruments and Quality Assurance in Radiotherapy