Name	Assistant Professor Samrit Kittipayak, Ph.D.
Thai name	ผู้ช่วยศาสตราจารย์ ดร.สัมฤทธิ์ กิตติพยัคฆ์
Position	Acting Assistant Dean for External Affairs and International relationship, Faculty of Health Technology
Responsibility for School	The executive committee of School of Radiological Technology
Email	samrit.kit@cra.ac.th
Expertise	Medical Imaging and Radiation Dosimetry
Research Interest	Medical Imaging Optimization, Radiation dosimetry radiation protection and phantom verification

Educational Background

Education level	Graduation year	Education field	University/ School	Province	Country
Doctoral degree	2017	Ph.D. Medical Imaging and Radiological Science	Central Taiwan University of Science and Technology	Taichung	Taiwan
Master's degree	2005	M.Sc. Medical Physics	Mahidol University	Bangkok	Thailand
Bachelor's degree	1999	B.Sc. Radiological Technology	Mahidol University	Bangkok	Thailand
Upper secondary education	1994	Match-Science	Watdusittaram School	Bangkok	Thailand
Lower secondary education	1991		Sichonkunatanwittaya School	Nakornsritammarat	Thailand

Work Experience

Start year	End year	Position	Organization	Province	Country
2025	present	Assistant Dean for External Affairs and International Relations	Faculty of Health Science Technology, Chulabhorn Royal Academy	Bangkok	Thailand
2022	2025	Assistant Professor	School of Radiological Technology, Faculty of Health Science	Bangkok	Thailand

			Technology, Chulabhorn Royal Academy		
2006	2022	Lecturer	Department of Radiological Technology, Faculty of Medical Technology, Mahidol University	Bangkok	Thailand
2000	2006	Health Physicist	Office of Atoms for Peace	Bangkok	Thailand

Publication

Year	Journal name	Title
2015	PLOS ONE	Wang TH, **Kittipayak S**, Lin YT, Lin CH, Pan LK. Quantification of the In Vitro Radiosensitivity of Mung Bean Sprout Elongation to 6MV X-Ray: A Revised Target Model Study. Plos one. 2015 Jun 8;10(6):e0128384.
2016	Hellenic journal of Nuclear Medicine	Pan LF, **Kittipayak S**, Yen SL, Pan LK, Lin CH. Evaluation of the occupational X-rays dose of the medical staff in a cardiac catheterization laboratory using an acrylic phantom and semiconductor dosimeter. Hellenic Journal of Nuclear Medicine. 2016 May 1;19(2):140-6.
2017	Journal of Medical Imaging and Health Informatics	**Kittipayak S**, Pan LF, Chiang FT, Pan LK, Lin CH. The optimization of the single photon emission computed tomography image quality via Taguchi analysis: A feasibility study of a V-shaped phantom. Journal of Medical Imaging and Health Informatics. 2017 Feb 1;7(1):143-8.
2019	Journal of Medical Imaging and Health Informatics	Wang TH, Chuang CH, Chiang FT, Chiu SW, Peng JF, Hwua YS, **Kittipayak S**, Pan LK. Overall Survival Prediction for Colon Cancer Patients of 0–IV Stages With and Without Surgical Operation Through a Revised Taylor Series Expansion Algorithm: A Population-Based Study in Taiwan. Journal of Medical Imaging and Health Informatics. 2019 Aug 1;9(6):1142-51.
2019	Journal of Mechanics in Medicine and Biology	Pan LF, Wu KY, Chen KL, **Kittipayak S,** Pan LK. Taguchi method-based optimization of the minimum detectable difference of a cardiac X-ray imaging system using a precise line pair gauge. Journal of Mechanics in Medicine and Biology. 2019 Nov 17;19(07):1940030.

2019	Journal of Mechanics in Medicine and Biology	Peng BR, **Kittipayak S**, Pan LF, Pan LK. Optimizing the minimum detectable difference of computed tomography scanned images via the Taguchi analysis: A feasibility study with an indigenous hepatic phantom and a line group gauge. Journal of Mechanics in Medicine and Biology. 2019 Dec 17;19(08):1940048.
2019	Journal of Mechanics in Medicine and Biology	Lin YH, Hsiao KY, Chang YT, **Kittipayak S,** Pan LF, Pan LK. Assessment of effective blood concentration readings from clinical data on patients with heart failure diseases after digoxin intake: A projection based on the inverse problem algorithm. Journal of Mechanics in Medicine and Biology. 2019 Dec 17;19(08):1940061.
2020	PLOS ONE	Huang CC, Lin YH, **Kittipayak S**, Hwua YS, Wang SY, Pan LK. Biokinetic model of radioiodine I-131 in nine thyroid cancer patients subjected to in-vivo gamma camera scanning: A simplified five-compartmental model. PloS one. 2020 May 4;15(5):e0232480.
2022	Technology and Health Care	Pan LF, Chen YH, Wang CC, Peng BR, **Kittipayak S,** Pan LK. Optimizing cardiac CT angiography minimum detectable difference via Taguchi's dynamic algorithm, a V-shaped line gauge, and three PMMA phantoms. Technology and Health Care. 2022 Jan;30(1_suppl):91-103.
2022	Journal of Medical Imaging and Radiation Sciences	Shih-Hsun H, Bing-Ru P, ChihSheng L, Hui-Chieh T, **Samrit K,** Lung-Fa P, Lung-Kwang P. Inverse problem algorithm verification by integrated case studies in preventive medicine. Journal of Medical Imaging and Radiation Sciences. 2022 Dec 1;53(4):S43.
2022	Technology and Health Care	Pan LF, Chen YH, Wang CC, Peng BR, **Kittipayak S**, Pan LK. Optimizing cardiac CT angiography minimum detectable difference via Taguchi's dynamic algorithm, a V-shaped line gauge, and three PMMA phantoms. Technology and Health Care. 2022 Jan;30(1_suppl):91-103.
2024	The Thai Journal of Radiological Technology	**Kittipayak S**, Lodea P, Panjaudomrat S. Optimizing the minimum detectable difference of chest protocol digital radiography system by V-shaped line gauge phantom and Taguchi analysis. The Thai Journal of Radiological Technology. 2024 May 22;49(1):14-25.
2025	Comprehensive Nursing Journal	Wibisono S, Syahruramdhani S, **Kittipayak S.** Unraveling the Impact of Physical Activity Patterns on Psychological Stress in Nursing Students: Evidence from the COVID-19 Crisis. Jurnal Keperawatan Komprehensif (Comprehensive Nursing Journal). 2025 Apr 30;11(2):251-9.
Teaching Course		
Student level	**Course code**	**Course name**

Undergraduate	HTRT 1102	Radiation Physics
Undergraduate	HTRT 1103	Radiation Dosimetry
Undergraduate	HTRT 1108	Radiation Protection
Undergraduate	HTRT 1114	Foreign languages for Radiologic technologist
Undergraduate	CHRT 302	Basic Radiation Protection
Undergraduate	CHRT 408	Foreign languages for Radiologic technologist
Undergraduate	CHRT 419	English for Professional Radiologic Technologist
Graduate	HTUS 2103	Ultrasound Physics
Undergraduate	CHME 101	Basic Medical Sciences