


Curriculum Vitae

Personal Information		
Title	Pf	
Name	James Sohn	
Degree	PhD	
Country	United States	
Affiliation	University of Chicago	
Educational Background		
Ph.D.	2018	Medical Physics & Engineering, Catholic University of Korea, Korea
M.S.	2014	Medical Physics & Engineering, Catholic University of Korea, Korea
B.S.	2011	Radiological Science, Catholic University of Pusan, Korea
Professional Career		
2024-present		Assistant Professor, Committee on Medical Physics, University of Chicago
2023-present		Assistant Professor of Radiation and Cellular Oncology, University of Chicago
2023-Present		CEO of Oncosoft Inc.
2022-2023		Assistant Professor of Radiation Oncology, Northwestern University
2020-2022		Resident, Virginia Commonwealth University
2018-2020		Postdoctoral Fellow, Emory University
2015-2018		Visiting Scholar, University of Florida
2015-2015		Visiting Scholar, Stanford University
2011-2018		Research Associate, Catholic University of Korea
Research Field		
Medical Physics in Radiation Oncology area – Brachytherapy, Adaptive Radiation Therapy and Digital Twin		
Main Scientific Publications		
1.	Jiang R, Madondo M, Zhang X, Shao Y, Moradi M, Sohn J , Wu T, Yang X, Hasan Y, Tian Z. Deep Learning-based Applicator Selection between Syed and T&O in High-Dose-Rate Brachytherapy for Locally Advanced Cervical Cancer: A Retrospective Study. <i>Phys. Med. Biol.</i> 6;70(11):115023, 2025.	
2.	Stolen E, Schulz J, Allie L, Song C, Sohn J . Fully Customizable Bronze-PLA Lung Shields using 3D Printing for Total Body Irradiation (TBI). <i>Biomed. Phys. Eng. Express.</i> 11 045001, 2025.	
3.	Sohn J , Park J, Sen S, Wu T, Mielke M, Kim S. Optical Automatic Contour Tracing (O-ACT) – A Novel Optical Image-guided Contour Tracing Method for Electron Beam Shaping. <i>Med. Phys.</i> 52(2)913-923, 2025.	
4.	Lim SN, Sohn J , Klawikowski SJ, Hayes JP, Donnelly E, Das I. Characterization of brass bolus for electron beam therapy. <i>Biomed. Phys. Eng. Express.</i> 10:065046, 2024.	
5.	Sohn J , Kim H, Stolen E, Chidel G, Jang S, Furutani K, Beltran C, Lu B. Innovative 3D printing and molding process for secondary-skin-collimator fabrication. <i>Biomed. Phys. Eng. Express.</i> 10:055022, 2024.	
6.	Sen S, Stolen E, Chun J, Kim J, Sohn J . Optimized Needle Configuration for Operational Seed (ONCOSEED) Efficiency and Deployment for Prostate Seed Implants. <i>Tech. Innov. Patient. Support. Radiat. Oncol.</i> 32: 100273, 2024.	
7.	Sohn J , Das I. Investigation of triaxial cables and microdetectors in small field dosimetry. <i>Biomed. Phys. Eng. Express.</i> 10:045031, 2024.	
8.	Sohn J , Lim S, Das I, Yadav P. An Integrated and Fast Magnetic Resonance (MR) Imaging Quality Assurance (QA) Phantom for a 0.35 T MR-Linac (MRL) System. <i>Phys. Imaging. Radiat. Oncol.</i> 27 100462, 2023.	
9.	Das I, Sohn J , Lim S, Sengupta B, Feijoo M, Yadav P. Characteristics of a Plastic Scintillation Detector in Photon Beam Dosimetry. <i>J. Appl. Clin. Med. Phys.</i> 20:e14209, 2023.	



The 13th International Congress on MRI & 30th Annual Scientific Meeting of
KSMRM & 7th Annual Meeting of ASMRM [ICMRI 2025 & ASMRM 2025]

October 31 – November 1, 2025 Grand Walkerhill Seoul, Seoul, Korea

10. **Sohn J**, Polizzi M, McDonagh R, Guy C, Datsang R, Weiss E, Kim S. Shallow Kinetics Induced by Metronome (SKIM): A Novel Contactless Respiratory Motion Management. *J. Appl. Clin. Med. Phys.* e14147, 2023.