


## Curriculum Vitae

Personal Information	
Title	Dr.
Name	Taewoo Nam
Degree	PhD
Country	Republic of Korea
Affiliation	Neuroscience Research Institute, Gachon University
	
Educational Background	
2022.03 – 2025.02 Department of Health Sciences and Technology, GAIHST, Gachon University, Republic of Korea Ph.D. / Major: Neuroscience, Ph.D. of Engineering	
2020.03 - 2022.02 Department of Health Sciences and Technology, GAIHST, Gachon University, Republic of Korea M.S. / Major: Neuroscience, Master of Engineering	
2013.03 - 2020.02 Department of Biomedical Engineering, Gachon University, Republic of Korea B.S. / Major: Biomedical Engineering	
Professional Career	
2025.03 – Present Postdoctoral Researcher Neuroscience Research Institute, Gachon University, Republic of Korea	
Research Field	
RF coil, RF circuitry, Electromagnetic simulation, Ultra-high field magnetic resonance imaging	
Main Scientific Publications	
<ol style="list-style-type: none"> <li><b>Nam T</b>, Kim D, Hernandez D, Lee T, Noh Y, Kim K-N. Geometric decoupling using clip-path conductors for whole-brain transceiver array at 7 T. Measurement (2023).</li> <li><b>Nam T</b>, Kim D, Seo M, et al. Design of Rotated Surface Coil Array for Multiple-Subject Imaging at 400 MHz. IEEE Access (2022).</li> <li>Lee E, <b>Nam T</b>, Hernandez D, et al. Optimization of MR-guided Focused Ultrasound System: Comparative Study of Water Bolus and Electrically Optimized Material Using Automated Machine Learning (2025).</li> <li>Hernandez D, <b>Nam T</b>, Lee E, et al. Computational Design of a Thermal Applicator for Brain Hyperthermia Controlled by Capacitor Positioning in Loop Coils. Magnetic Resonance in Medical Sciences (2025).</li> <li>Hernandez D, <b>Nam T</b>, Lee E, Lee J.J, Kim K, Kim K-N. Design of Multi-modal Antenna Arrays for Microwave Hyperthermia and <sup>1</sup>H/<sup>19</sup>F MRI Monitoring of Drug Release. Plos One (2024).</li> <li>Hernandez D, <b>Nam T</b>, Lee E, Ko GB, Kee JS, Kim K-N. Simulation Design of a Triple Antenna Combination for PET-MRI Imaging Compatible With 3,7, and 11.74T MRI Scanner. International Journal of Imaging Systems and Technology (2024).</li> <li>Lee E, <b>Nam T</b>, Hernandez D, Kim D, Ryu Y, Han Y, Kim K-N. Patient’s head Position-Dependent Safety Analysis of Birdcage Coil, Loop Array, and Dipole Array for Applications at 300MHz in Magnetic Resonance Imaging Based on Hydrogen Nuclei: Simulation study. Nuclear Engineering and Technology (2024).</li> <li>Hernandez D, <b>Nam T</b>, Lee E, Lee J.J, Kim KN. Extended Curvature Birdcage Coil Design for Localized Magnetic field in 9.4T MRI for multiple mouse imaging. AIP Advances (2024).</li> <li>Hernandez D, Kim D, <b>Nam T</b>, et al. Current recycled and self-phase shift to expand the length of radio-frequency coils, with application to brain and spine coil array at 7T MRI. IEEE Access (2023).</li> <li>Hernandez D, <b>Nam T</b>, Jeong Y, Kim D, Kim K-N. Study on the Effect of Non-Symmetrical Current Distribution Controlled by Capacitor Placement in Radio-Frequency Coils for 7T MRI. Biosensors (2022).</li> </ol>	
Awards	
2024.11	ICMRI 2024 Best trainee scientific awards poster presentation [Grand Prix], ICMRI9
2024.05	KSRSC 2024 Excellent Award, KSRS
2022.11	ICMRI 2022 Best trainee scientific awards poster presentation [Silver], ICMRI



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

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

2022.02	Academic Excellence Award [M.S. degree], Graduate School, Gachon University
2021.11	ICMRI 2021 Best trainee scientific awards poster presentation [1st], ICMRI
<b>Patents</b>	
1.	Kim K-N, <b>Nam T</b> , Lee T. RF coil for MRI. KR 10-2724687-0000 (2024)
2.	Kim K-N, <b>Nam T</b> . RF coil for setting up a multiple small-animal MRI. KR 10-2674224-0000 (2024)
3.	Kim K-N, Kim D, Han SD, <b>Nam T</b> , Seo M. Inductively coupled micro-stripline RF coil for MRI. KR 10-2644728-0000 (2024)
4.	Kim K-N, Kim D, Seo M, <b>Nam T</b> . Phase shifter for multiple Tx mode of a MRI. KR 10-2555740-0000 (2023)
5.	Kim K-N, Kim D, Seo M, <b>Nam T</b> . Wireless RF surface coil with adjustable size. KR 10-2537482-0000 (2023)