



<b>Name</b>	Sang Won Park
<b>Affiliation</b>	BIOLINK Inc.
<b>Country</b>	South Korea
<b>Major Field</b>	Medical Informatics

<b>Educational Background</b>	
<b>Ph.D. in Medical Big Data Convergence</b>	
<ul style="list-style-type: none"> <li>➤ <b>Kangwon National University</b>, Republic of Korea, March 2020 - August 2022</li> <li>➤ <b>Thesis:</b> Deep and Machine Learning Application for the Classification of Alzheimer's Disease using Tau PET</li> <li>➤ <b>Adviser:</b> Jae-Won Jang, M.D., Ph.D.</li> <li>➤ <b>Area of Study:</b> AI, Machine Learning, Clinical information, Neuroimaging, Neuroscience, Digital Health</li> </ul>	
<b>M.S. in Radiological Cancer Medicine</b>	
<ul style="list-style-type: none"> <li>➤ <b>University of Science and Technology (UST)- Korea Institute of Radiological &amp; Medical Sciences (KIRAMS)</b>, Republic of Korea, March 2017 – February 2020.</li> <li>➤ <b>Thesis:</b> A study on radiomics application for <b>survival prediction analysis</b> of Head and Neck Squamous Cell Carcinoma(HNSCC) patients using PET image</li> <li>➤ <b>Adviser:</b> Jin Su Kim, Ph.D.</li> </ul>	
<b>Area of Study: Medical image analysis, Positron Emission Tomography</b>	

<b>Professional Experience</b>	
<b>Research Director</b>   BIOLINK Inc.	January 2026 – Present
<ul style="list-style-type: none"> <li>• <b>Research directing for medical AI studying in neuroscience based on brain image data and cancer research study design in pulmonary CT image data.</b></li> <li>• <b>Mobile health (Digital healthcare) platform development to hospital patients transfer assistance.</b></li> </ul>	
<b>Research Professor</b>   Kangwon National University Hospital	November 2024 – December 2025
<ul style="list-style-type: none"> <li>• <b>Contributed to the statistical design</b> of observational studies, selecting appropriate methods for high-dimensional, multi-source clinical data.</li> <li>• <b>Developed and executed statistical analysis plans</b> for projects involving longitudinal patient data, and communicated analysis requirements to data teams.</li> <li>• <b>Reviewed study results</b> and contributed to the preparation of statistical methods sections for manuscripts</li> </ul>	
<b>Inviting Researcher</b>   National Cancer Center	February 2023 – February 2024
<ul style="list-style-type: none"> <li>• <b>Led the statistical methodology preparation</b> for multiple research projects, including the selection of advanced models (e.g., survival models, XAI).</li> <li>• <b>Authored the analysis sections of clinical reports and publications</b>, ensuring accurate interpretation and communication of statistical results to collaborators and medical personnel.</li> <li>• <b>Generated and validated analysis databases</b> from raw, large-scale national cohort and EHR data.</li> </ul>	
<b>Research Professor</b>   Kangwon National University	September 2022 – October 2024
<ul style="list-style-type: none"> <li>• Developed and implemented novel <b>deep learning algorithms</b></li> <li>• Researched <b>multi-modal learning</b> approaches by integrating T1 MRI and PET data with clinical information to improve machine learning model performance.</li> </ul>	
Applied explainable AI (XAI) to develop mortality prediction models for septic patients using <b>incomplete and multi-source</b> biomedical data from a nationwide EHR-based cohort.	



## Main Scientific Publications (Recent 3 years)

- 1 Impact of a Mobile Nutrition App on Dietary Outcomes in Cancer Survivors: A Pilot Feasibility Study, JMIR Cancer. 2026;Jan.
2. De-identification Strategy and Re-identification Risks for Head Computed Tomography Images via Deep Learning, J Imaging Inform Med, 2026; Jan.
3. Development of explainable machine learning models to predict side effects in patients with rheumatoid arthritis taking methotrexate treatment: a nationwide multicentre cohort study. BMJ Open. 2025; November
4. Real-world validation of a deep learning model for detecting nasogastric tube placement on chest X-rays. Tomography. 2025; December
5. Explainable AI for colorectal cancer mortality and risk factor prediction in Korea: A nationwide cancer cohort study. Int J Med Inform. 2025; October
6. Hearing Loss and the Risk of Dementia: A Longitudinal Analysis of the Korean National Health Insurance Service Senior Cohort. J Alzheimers Dis. 2025; March.
7. Association of psychosis with cognitive impairment is mediated by amyloidopathy in cognitive impairment. Front. Aging Neurosci. 2025; Dec.
8. Predictive Mortality and Gastric Cancer Risk Using Clinical and Socio-Economic Data: A Nationwide Multicenter Cohort Study. Cancers. 2024;December
9. Mortality Prediction Modeling for Patients with Breast Cancer Based on Explainable Machine Learning. Cancers. 2024; December.
10. Multi-classification of Osteoporosis Grading Stages Using Abdominal Computed Tomography with Clinical Variables: Application of Deep Learning with a Convolutional Neural Network. J Korean Soc Radiol. 2024; May.
11. Status of MyHealthWay and Suggestions for Widespread Implementation, Emphasizing the Utilization and Practical Use of Personal Medical Data. Healthc Inform Res. 2024; April.
12. Early Prediction of Mortality for Septic Patients Visiting Emergency Room Based on Explainable Machine Learning: A Real-World Multicenter Study. J Korean Med Sci. 2024; February.
13. M4: Multi-modality Multi-task Model for mRS Prediction Using Diffusion-Weighted Magnetic Resonance Imaging. Sci Rep. 2024; August.
14. Predicting the Progression of MCI to Alzheimer's Dementia Using Recurrent Neural Networks with a Series of Neuropsychological Tests. J Clin Neurol. 2024; May.
15. Association Between Nicotine Dependence, Smartphone Usage Patterns, and Expected Compliance with the Smoking Cessation Application Among Smokers. Healthc Inform Res. 2024; May.
16. Deep Learning Model Integrating Radiologic and Clinical Data to Predict Mortality After Ischemic Stroke. Heliyon. 2024; May.
17. Lower-Body Fractures and the Risk of Dementia: A Nationwide Population-Based Study. J Clin Neurol. 2024; January.
18. Deep Learning Application for the Classification of Alzheimer's Disease Using 18F-



- flortaucipir (AV-1451) Tau Positron Emission Tomography. *Sci Rep.* 2023; May.
19. Machine Learning Application for Classification of Alzheimer's Disease Stages Using 18F-flortaucipir Positron Emission Tomography. *Biomed Eng Online.* 2023; April.
20. In-Advance Prediction of Pressure Ulcers via Deep Learning-Based Robust Missing Value Imputation on Real-Time Intensive Care Variables. *J Clin Med.* 2023; December.
21. The Image and Multimodal Classification for Alzheimer's Disease by Convolutional Neural Network and Combination with Long Short-Term Memory Using Tau-PET Images. *Alzheimer's Assoc Int Conf.* 2022; July.
22. Quantitative Assessment of the Longitudinal Changes of Pulmonary Vascular Counts in Chronic Obstructive Pulmonary Disease. *Respir Res.* 2022; February.
23. Machine Learning-Based Automatic Estimation of Cortical Atrophy Using Brain Computed Tomography Images. *Sci Rep.* 2022; August.
24. Predicting Progression to Dementia with 'Comprehensive Visual Rating Scale' and Machine Learning Algorithms. *Front Neurol.* 2022; July.
25. Indirect Volume Estimation for Acute Ischemic Stroke from Diffusion-Weighted Image Using Slice Image Segmentation. *J Pers Med.* 2022; March.
26. Analysis of Treatment Patterns of Anti-Dementia Medications in Newly Diagnosed Alzheimer's Dementia Using OMOP CDM. *Sci Rep.* 2022; March.