



Jeong Hoon Lee

Postdoctoral Scholar, Radiology

Bio

BIO

Leveraging a strong foundation in data science and engineering, my objective is to address challenges within the biomedical sector. My experience encompasses a broad spectrum of data, including radiology, genomics, histopathology, and clinical data. I am committed to integrating these diverse datasets to conduct research aimed at benefiting patients.

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Seoul National University (2023)
- Bachelor of Engineering, Inha University Yonghyeon Campus (2014)
- Ph.D., Seoul National University, Bioinformatics, department of natural science

STANFORD ADVISORS

- Mirabela Rusu, Postdoctoral Faculty Sponsor

LINKS

- Google scholar: <https://scholar.google.com/citations?user=CFkwfcIAAAAJ>
- Curriculum Vitae: <https://www.notion.so/Academic-Curriculum-Vitae-dbf38ba2ec7a49ad8d854d78cfc64b9f?pvs=4>

Publications

PUBLICATIONS

- **Ensemble Deep Learning Model to Predict Lymphovascular Invasion in Gastric Cancer.** *Cancers*
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- **Artificial Intelligence Model Assisting Thyroid Nodule Diagnosis and Management: A Multicenter Diagnostic Study** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
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- **Development and Application of an Active Pharmacovigilance Framework Based on Electronic Healthcare Records from Multiple Centers in Korea.** *Drug safety*
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Moon, J., Lee, J., Roh, J., Lee, D., Ha, E.

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Ha, E., Lee, J., Lee, D., Na, D., Kim, J.
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- **A Data-Driven Reference Standard for Adverse Drug Reaction (RS-ADR) Signal Assessment: Development and Validation.** *Journal of medical Internet research*
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- **Predictions for Three-Month Postoperative Vocal Recovery after Thyroid Surgery from Spectrograms with Deep Neural Network.** *Sensors (Basel, Switzerland)*
Lee, J. H., Lee, C. Y., Eom, J. S., Pak, M., Jeong, H. S., Son, H. Y.
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- **Clinicoradiological Characteristics in the Differential Diagnosis of Follicular-Patterned Lesions of the Thyroid: A Multicenter Cohort Study.** *Korean journal of radiology*
Lee, J. H., Ha, E. J., Lee, D. H., Han, M., Park, J. H., Kim, J. H.
2022; 23 (7): 763-772
- **Development and Validation of a Multimodal-Based Prognosis and Intervention Prediction Model for COVID-19 Patients in a Multicenter Cohort** *SENSORS*
Lee, J., Ahn, J., Chung, M., Jeong, Y., Kim, J., Lim, J., Kim, J., Kim, Y., Lee, J., Kim, E.
2022; 22 (13)
- **Prognostic Role of Circulating Tumor Cells in the Pulmonary Vein, Peripheral Blood, and Bone Marrow in Resectable Non-Small Cell Lung Cancer.** *Journal of chest surgery*
Lee, J. M., Jung, W., Yum, S., Lee, J. H., Cho, S.
2022; 55 (3): 214-224
- **Improving the Performance of Radiologists Using Artificial Intelligence-Based Detection Support Software for Mammography: A Multi-Reader Study.** *Korean journal of radiology*
Lee, J. H., Kim, K. H., Lee, E. H., Ahn, J. S., Ryu, J. K., Park, Y. M., Shin, G. W., Kim, Y. J., Choi, H. Y.
2022; 23 (5): 505-516
- **GLRX3, a novel cancer stem cell-related secretory biomarker of pancreatic ductal adenocarcinoma.** *BMC cancer*
Jo, J. H., Kim, S. A., Lee, J. H., Park, Y. R., Kim, C., Park, S. B., Jung, D. E., Lee, H. S., Chung, M. J., Song, S. Y.
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- **Deep learning from HE slides predicts the clinical benefit from adjuvant chemotherapy in hormone receptor-positive breast cancer patients.** *Scientific reports*
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- **Effect of aspirin on coronavirus disease 2019: A nationwide case-control study in South Korea.** *Medicine*
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- **Prognostic Significance of the Extranodal Extension of Regional Lymph Nodes in Stage III-N2 Non-Small-Cell Lung Cancer after Curative Resection.** *Journal of clinical medicine*
Shih, B. C., Jeon, J. H., Chung, J. H., Kwon, H. J., Lee, J. H., Jung, W., Hwang, Y., Cho, S., Kim, K., Jheon, S.
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- **Sharing genetic variants with the NGS pipeline is essential for effective genomic data sharing and reproducibility in health information exchange.** *Scientific reports*

- Lee, J. H., Kweon, S., Park, Y. R.
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- **In Silico Inference of Synthetic Cytotoxic Interactions from Paclitaxel Responses.** *International journal of molecular sciences*
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 - **Technical feasibility of radiomics signature analyses for improving detection of occult tonsillar cancer.** *Scientific reports*
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2021; 11 (1): 192
 - **Personal Health Information Inference Using Machine Learning on RNA Expression Data from Patients With Cancer: Algorithm Validation Study.** *Journal of medical Internet research*
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 - **Application of deep learning to the diagnosis of cervical lymph node metastasis from thyroid cancer with CT: external validation and clinical utility for resident training.** *European radiology*
Lee, J. H., Ha, E. J., Kim, D., Jung, Y. J., Heo, S., Jang, Y. H., An, S. H., Lee, K.
2020; 30 (6): 3066-3072
 - **Development of a Real-Time Risk Prediction Model for In-Hospital Cardiac Arrest in Critically Ill Patients Using Deep Learning: Retrospective Study.** *JMIR medical informatics*
Kim, J., Park, Y. R., Lee, J. H., Lee, J. H., Kim, Y. H., Huh, J. W.
2020; 8 (3): e16349
 - **Gene regulatory network analysis with drug sensitivity reveals synergistic effects of combinatory chemotherapy in gastric cancer.** *Scientific reports*
Lee, J. H., Park, Y. R., Jung, M., Lim, S. G.
2020; 10 (1): 3932
 - **Prognostic Implication of pAMPK Immunohistochemical Staining by Subcellular Location and Its Association with SMAD Protein Expression in Clear Cell Renal Cell Carcinoma.** *Cancers*
Jung, M., Lee, J. H., Lee, C., Park, J. H., Park, Y. R., Moon, K. C.
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 - **Implementation of Korean Clinical Imaging Guidelines: A Mobile App-Based Decision Support System.** *Korean journal of radiology*
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 - **Gene expression profiling of calcifications in breast cancer.** *Scientific reports*
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 - **Gene Regulatory Network Analysis for Triple-Negative Breast Neoplasms by Using Gene Expression Data.** *Journal of breast cancer*
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- **Small molecule-based lineage switch of human adipose-derived stem cells into neural stem cells and functional GABAergic neurons.** *Scientific reports*
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