Jay J. Lee

Research Associate
Deparment of Biomedical Informatics, Columbia University
New York, NY, 10032

EDUCATION	*Master of Arts,* Statistics Columbia University, New York, NY Concentration: Machine Learning	Sep, 2018 - Present
	Bachelor of Science, Industrial Engineering *Bachelor of Economics,* International Economics and Trade Sungkyunkwan University, Seoul, South Korea	Feb, 2012 - Feb, 2016
EXPERIENCE	*Research Associate* Columbia University, Department of Biomedical Informatics, New York	Jan 2019 - Present
	Researcher Seoul National University, College of Medicine, Seoul, Korea	Oct 2018 - Jan 2019
	Army Officer Republic of Korea Army, The 2nd Operational Command, Deagu, Korea	Feb 2016 - June 2018
	Research Assistant Sungkyunkwan University, Department of Systems Mgmt Engineering, Suwon, Korea	Jan 2015 - Dec 2015

RESEARCH INTERESTS

Deep Learning, **Interpretable Representation Learning**, **Machine Learning, EHR Data Mining**

PUBLICATIONS **Journal Articles & Conference Proceedings**

1. C. Liu, C. Ta, J. Rogers, Z. Li, **J. Lee**, A. Butler, N. Shang, F. Kury, L. Wang, F. Shen, L. Ena, C. Friedman, H. Liu, C. Weng. Ensembles of Natural Language Processing Systems for Portable Phenotyping Solutions. Journal of Biomedical Informatics 100, 103318, 2019.

Posters & Presentations

1. **J. Lee**, C. Liu, N. Shang, X. Jiang, K. Chen, K. Kalluri, C. Pang, K. Natarajan, P. Ryan, C. Weng Generate the Concept Representation using OMOP Ontology Graph. 2019 OHDSI Symposium, arxiv: , 2019.

WORKING PAPERS

1. Enhancing Medical Concept Representation Using Deep Neural Networks

2. Synthetic Patient Generation using Improved Variational Autoencoder

3. Medical Document Recommender System Using Multimodal Representations

COMMUNITY SERVICE

Collaborator of Observational Health Data Sciences and Informatics (OHDSI)