Jay J. Lee

Staff Associate
Department of Biomedical Informatics, Columbia University
New York, NY, 10032

EDUCATION		
	Master of Arts, Statistics	Sep, 2018 - Feb, 2020
	Concentration: Statistical Machine Learning	
	Columbia University, New York, NY	
	Bachelor of Science, Industrial Engineering	Feb, 2012 - Feb, 2016
	Bachelor of Economics, International Trade and Policy (double major)	
	Sungkyunkwan University, Seoul, South Korea	

EXPERIENCE		
	Staff Associate	Jan 2019 - Present
	Columbia University, Department of Biomedical Informatics, New York	
	Research Associate	Jan 2019 - Jan 2020
	Columbia University, Department of Biomedical Informatics, New York	
	Researcher	Oct 2018 - Jan 2019
	Seoul National University, College of Medicine, Seoul, Korea	
	Army Officer	Feb 2016 - June 2018
	Republic of Korea Army, The 2nd Operational Command, Deagu, Korea	
	Research Assistant	Jan 2015 - Dec 2015
	Sungkyunkwan University, Department of Systems Mgmt Engineering, Suwon, Korea	

RESEARCH INTERESTS **Deep Learning**, **Interpretable Representation Learning**, **Machine Learning,**

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)
HONOURS & AWARDS	Gifted Student in Physics at Incheon National University, 2004-2005 Incheon City Office of Education's Young Gifted Student, 2002-2004