

Jay J. Lee

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

EDUCATION *Master of Arts, Statistics* Sep, 2018 - Feb, 2020
Concentration: 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, Korea

EXPERIENCE *Staff Associate* Feb 2020 - Present
Columbia University, Department of Biomedical Informatics, New York

Research Associate Feb 2019 - Dec 2019
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, Machine Learning, Applied Statistics, Healthcare**

PUBLICATIONS **Journal Articles & Peer-reviewed Conference Proceedings**

1. **J. Lee***, C. Liu*, JH. Kim, A. Butler, N. Shang, C. Pang, K. Natarajan, P. Ryan, C. Ta, C. Weng, Comparative Effectiveness of Knowledge Graph- and EHR Data-Based Medical Concept Embedding for Phenotyping, *Under review*.
2. J.R. Rogers, **J. Lee**, Z. Zhou, YK. Cheung, G. Hripcsak, C. Weng, Contemporary Use of Real-World Data for Clinical Trial Conduct: A Scoping Review, *Under review*.
3. A. Butler, **J. Lee**, Y. So, L. Busacca, K. Marder, HN. Ginsberg, D. Frederick, I. Castaneda, C. Weng, Impact of IMPACT: Longitudinal Analysis of an Integrated Patient Scheduling System in a Clinical Research Setting, *Accepted, AMIA Annual Symposium*. 2020.
4. 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.

Miscellaneous

1. **J. Lee***, C. Ta*, C. Liu, JH. K, C. Weng, COHD-COVID: Publicly Shared COVID-19 Statistics Mined from EHR Data, *Under review*, 2020 OHDSI Symposium, 2020.
2. **J. Lee**, C. Liu, N. Shang, X. Jiang, K. Chen, K. Kalluri, C. Pang, K. Natarajan, P. Ryan, C. Weng, Generate Concept Representations using OMOP Ontology Graph, *Poster presentation*, 2019 OHDSI Symposium, 2019.

COMMUNITY SERVICE

Collaborator of Observational Health Data Sciences and Informatics (OHDSI)

HONOURS & AWARDS

Commendation for Army Commitment, The 2nd Operational Command, 2018
Meritorious Unit Commendation, The 2nd Operational Command, 2017
Merit-based Scholarship, Sungkyunkwan University, 2015
Academic Scholarship, Sungkyunkwan University, 2013
Gifted Student at Incheon National University, 2004-2005
Young Gifted Student at Incheon City Office of Education, 2002-2004