

## Jay J. Lee

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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: 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, 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 and Medicine
- PUBLICATIONS** Journal Articles & Conference Proceedings
1. **J. Lee\***, C. Liu\*, J. 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. Kim, C. Ta, C. Liu, A. Butler, L. Stewart, N. Shang, **J. Lee**, A. Ostropolets, K. Natarajan, P. Ryan, C. Sung, C. Weng, Towards Clinical Data-Driven Eligibility Criteria Optimization for Interventional COVID-19 Clinical Trials. *Preprint.*
  3. 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.*
  4. A. Butler, **J. Lee**, Y. So, L. Busacca, K. Marder, H.N. 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 Proceedings.* 2020.
  5. 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.

### **Workshop Papers & Posters**

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, 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