Junghwan (Jay) Lee

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EDUCATION Columbia University, NY, United States 2018 - 2020 Master of Arts in Statistics Sungkyunkwan University 2012 - 2016 Bachelor of Science in Industrial Engineering Bachelor of Economics **EXPERIENCE** Staff Research Associate 02/2020 - Present Columbia University, NY Research Assistant 01/2019 - 12/2019Columbia University, NY 10/2018 - 01/2019 Researcher Seoul National University College of Medicine, Seoul, Korea Army Officer 02/2016 - 06/2018 The 2nd Operational Command, Deagu, Korea Research Assistant 01/2015 - 12/2015

RESEARCH INTERESTS

Artificial Intelligence, Applied Statistics, Healthcare, Medicine

PUBLICATIONS Journal Articles & Peer-reviewed Conference Proceedings

Sungkyunkwan University, Seoul, Korea

- 1. **J. Lee**, JH. Kim, C. Liu, D. Shimbo, M. Abdalla, G. Hripcsak, C. Ta*, C. Weng*, COHD-COVID: Columbia Open Health Data for COVID-19 Research, *Preprint*.
- 2. **J. Lee**, C. Ta, JH. Kim, C. Liu, C. Weng*, Severity Prediction for COVID-19 Patients via Recurrent Neural Networks, *Univer review*.
- 3. **J. Lee***, C. Liu*, JH. Kim, A. Butler, N. Shang, C. Pang, K. Natarajan, P. Ryan, C. Ta, C. Weng, Comparative Effectiveness of Medical Concept Embedding for Feature Engineering in Phenotyping, *Under review*.
- 4. JH. Kim, CN. Ta, C. Liu, C. Sung, AM. Butler, LA. Stewart, L. Ena, C. Friedman, JR. Rogers, N. Shang, **J. Lee**, H. Liu, A. Ostropolets, K. Natarajan, PB. Ryan, SM. Lee, MSV. Elkind, C. Weng, Towards Clinical Data-Driven Eligibility Criteria Optimization for Interventional COVID-19 Clinical Trials, *JAMIA*, *To appear*.
- 5. J.R. Rogers, **J. Lee**, Z. Zhou, YK. Cheung, G. Hripcsak, C. Weng, Contemporary Use of Real-World Data for Clinical Trial Conduct in the United States: A Scoping Review, *JAMIA*, September 2020, *In press*.

- 6. 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.
- 7. 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, Observational Health Data Science and Informatics (OHDSI) Symposium, 2020, Poster presentation.
- 2. **J. Lee**, Severity Prediction in COVID-19: Can We Predict Disease Severity and Outcomes at Early Stage?, Columbia University Zuckerman Institute, October 2020, Invited talk.
- 3. 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, Observational Health Data Science and Informatics (OHDSI) Symposium, 2019, Poster presentation.

SERVICES

npj Digital Medicine, Reviewer

HONOURS & AWARDS

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