

# JAEYOUNG (JAE) PARK

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## RESEARCH INTERESTS

Explainable Machine Learning in Healthcare, Causal Inference from observational data

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## EDUCATION

**University of Florida, Gainesville, USA** August 2018 - Present  
Ph.D. Student, Industrial and Systems Engineering (Advisor: Dr. Xiang Zhong)

**Hongik University, Seoul, Korea** March 2016 - August 2018  
M.S. Industrial Engineering (Advisor: Dr. Wonchul Jhee)  
Master's Dissertation: "Music Recommendation using Deep Learning"  
User Listening History regarded as a sequence is analyzed and the song which a user will be the most likely to listen to is predicted using LSTM algorithm

**Hongik University, Seoul, Korea** March 2010 - February 2016  
B.S. Industrial Engineering (minor: Computer Engineering)

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## ONGOING RESEARCH & PROJECTS

### **Effect of Electronic Patient Portal on Clinic Management and Health Communication**

Observational data such as patients' behavior and survey is investigated to find out the effect of electronic patient portal on the rate of cancellation or their confidence in their health.

### **Prediction of Readmission in Congestive Heart Failure**

Readmission is predicted based on patients' medical records, especially echo-cardiogram, medical history, and demographics. We collaborate with UF Shands hospital.

### **Reducing Diagnostic Errors**

Since information overload can cause diagnostic errors, the overload will be quantified and modeled to reduce the errors. We collaborate with Mayo Clinic.

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## TECHNICAL STRENGTHS

**Software & Tools** R, Anylogic, Python, Java, SQL, Android Studio

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## WORK EXPERIENCE

**Mayo Clinic, Rochester USA** May 2019  
*Internship*

- Observed the entire clinic systems and the intensive care units and modeled data flows and physical activities using agent-based simulation with Anylogic.

**Shinhan Card Co., Seoul Korea** August 2015  
*Internship*

- Visualized "big" transaction data and re-grouped transaction categories to analyze accurate consumption trends.

## TEACHING EXPERIENCE

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### Teaching Assistant

University of Florida

- ESI4343 - *Operations Research 2* (Fall 2019)
- ESI4523 - *Industrial Systems Simulation*:  
Guest Lecturer for Monte Carlo Simulation and Basic Probability (Fall 2019)
- EIN4343 - *Inventory and Supply Chain Systems* (Spring 2019)
- ESI6314 - *Deterministic Methods in Operations Research* (Fall 2018)

Hongik University

- *Introduction to Data Mining*: responsible for R demonstration (Fall 2016, 2017)
- *Web Programming*: responsible for Java demonstration (Spring 2016)

## EDITORIAL ACTIVITIES

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### Publication

- Zhong X, Park J, Liang M, et al. (under review) “Characteristics of Patients Using Different Patient Portal Functions and the Impact on Primary Care Service Utilization and Appointment Adherence.”
- Jhee W, *Data Mining in the Big Data Era*, Minyoungsa, 2017. ISBN 979-11-86378-20-5  
Contributed R programming examples of several data mining algorithms to the textbook.

### Manuscript Reviewer for

- *Networks and Spatial Economics*

## PRESENTATIONS

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- “On the Effect of Electronic Patient Portal on Primary Care Delivery,” *6th International Conference On Computational Biomedicine*, Gainesville, FL, February 2019.
- “Music Recommendation using Deep Learning,” *Korean Intelligent Information System Society*, Seoul, Korea, June 2018.