Ji-Eun Park

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Educations _____

University of North Carolina - Chapel Hill

Doctor of Philosophy in Biostatistics

Chapel Hill, NC Aug 2019 -

Davis, CA

Weill Cornell Medicine, Cornell University

New York, NY

Master of Science in Biostatistics and Data Science

Sep 2017 - Dec 2018

Ewha Womans University Seoul, Korea

Bachelor of Science in Economics Mar 2013 - Dec 2016

University of California, Davis

Student Exchange Program Sep 2014 - Dec 2014

Research Experiences

Researcher Baltimore, MD (remote)

Johns Hopkins University

May 2019 - Present

- Perform RNAseq analysis to find the effect of PM2.5 on six different brain areas
- Differential gene expression analysis, GO term analysis in R, GSEA

Temporary Researcher

JB Lab & Clinic

Seoul, Korea (remote) Aug 2018 - Present

• Aim to determine the association of salt intake and hypertension, metabolic syndrome, and ARB treatment effect from a 10K+ hypertension patients data attained from a K-MetS study

Research AssistantNew York, NY

Department of Health Policy & Research, Weill Cornell Medicine

Aug 2018 - Jun 2019

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- Determine the subpopulations with higher risk of stroke after myocardial infarction (MI) using causal inference methods
- Use Cox models to identify effect modification by demographics, stroke risk factors e.g. hypertension, diabetes, etc., and Charlson comorbidities
- Parallel-computing (SGE) to estimate conditional treatment effect from a 1.7+M sample of Medicare beneficiaries data

Research Assistant

New York, NY

Department of Health Policy & Research, Weill Cornell Medicine

March 2018 - Present

Project 2

- Abstract Submitted: Vista Blockade Immunotherapy in a Multi-modal Approach to Triple Negative Breast Cancer (TNBC) in Mice and Impact on Microbiome
- Microbiome research based on 3 mouse fecal samples DNA extraction and cutaneous human breast microbiome samples
- Aim to determine the effects of aVISTA, Cyclophosphamide and Radiation Treatment effects on human and mice microbiome to understand the treatment effects on breast cancer.
- Use DADA2 and perform diversity analysis, differential abundance analysis

June 3, 2019

New York, NY Mar 2018 - Feb 2019

- Develop a comprehensive workflow for microbiome data analysis based on our analysis
- Analyze 16S rRNA gene sequence data from a study to understand the effect of fructose consumption on mouse gut microbiome
- Perform data preparation and generate phylogenetic trees from data and explore various methods for alpha/beta diversity, differential abundance analysis and classification/clustering

Leading Project Researcher¹

Department of Health Policy & Research, Weill Cornell Medicine

New York, NY Sep 2017 - Aug 2018

Advisor: Dr. Davide Risso

Project 1

- Compared clustering methods for analyzing Single-Cell RNA Sequencing Data
- Performed data processing, simulation based on gamma-poisson distribution, normalization, dimensionality reduction (PCA) with R packages *scater*, *splatter*, *clusterExperiment*, *etc*.
- Compared among traditional and sequential K-means/PAM based on Adjusted Rand Index

Teaching Experiences _____

Teaching Assistant, Statistical Learning (Master level)

Department of Healthcare Policy & Research, Weill Cornell Medicine

New York, NY May 2018 - Present

- Lead labs sessions for 29 students with course-related realization with R
- Hold regular office hours regarding questions on course materials, assignments and academic concerns

Teaching Assistant, Foundations Biomedical Applications (Master level)

Department of Healthcare Policy & Research, Weill Cornell Medicine

New York, NY February 2018 - May 2018

- Lead labs sessions for 21 students with course-related realization with R
- Hold regular office hours regarding questions on course materials, assignments and academic concerns

Teaching Assistant, Categorical & Censored Data Analysis (Master level)

Department of Healthcare Policy & Research, Weill Cornell Medicine

New York, NY Nov 2018 - Present

- Lead labs sessions for 25 students with course-related realization with SAS
- Hold regular office hours regarding questions on course materials, assignments and academic concerns

Publications & Technical Reports

Publications - Submitted

Josephine Kang, Karsten Pilones, Camille Daviaud, Jeffrey Kraynak, Maria Rodriguez-Ruiz, Xi Kathy Zhou, Ji-Eun Park, Chenghuiyun Xu, Sandra Demaria, Silvia Formenti, Submitted, Vista Blockade Immunotherapy in a Multi-Modal Approach to Triple Negative Breast Cancer (TNBC) in Mice and Impact on Microbiome, American Society for Radiation Oncology (ASTRO)

June 3, 2019

¹Presentation/Technical Report of this project won the "Best Capstone Project Award" in the Department of Healthcare Policy & Research, Weill Cornell Medicine

Publications - In Preparation

• Daeryong Kang, Changsoo Kim, Minyoung Kim, Jeongdong Lee, Ji-Eun Park, Jeong Bae Park, In preparation, Sodium intake and its effects on hemodynamic and metabolic risk development

Technical Reports

• Ji-Eun Park, Yitong Wang, Davide Risso, Comparing Methods for Analyzing Single-Cell RNA Sequencing Data, unpublished technical report, Department of Health Policy & Research, Weill Cornell Medicine, 2018 (https://github.com/jennprk/ClusteringMethods Single-cell RNASquencing)¹

Technical Skills

Programming R, SAS, mySQL, Python, LATEX

Database Management SQL Server, MS Access **Parallel-computing** Sun Grid Engine (SGE)

Honors & Awards

2018	Best Capstone Project Award, Weill Cornell Medicine, Graduate School of Medical Sciences	New York, NY
2016	Honors Scholarship, Ewha Womans University	Seoul, Korea
2015	Honors Scholarship(top 6%), Ewha Womans University	Seoul, Korea
2014	Student Exchange Program Scholarship at University of California, Davis, Ewha Womans University	Seoul, Korea
2013	Honors Scholarship, Ewha Womans University	Seoul, Korea

Industry Experiences _____

Internship Seoul, Korea Cheil Vascular Research Institute Jun 2015 - Sep 2015

- Conducted data cleaning of baseline characteristics and risk factors of patients data using Excel
- Performed descriptive analysis of the baseline characteristics of hypertension patients with **STATA**

Voluntary & Community Activities _____

Webinar Presenter New York November 2018

Department of Health Policy & Research, Weill Cornell Medicine

• Collaborate with 2 staff and 1 faculty member to develop a program introduction webinar as a current student representative speacker

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Program Marketing Translator

Department of Health Policy & Research, Weill Cornell Medicine

New York, NY Jan 2018 - Feb 2018

• Translated the school program marketing materials written in English to Korean

Student Council Member

College of Social Sciences, Ewha Womans University

Seoul, Korea Mar 2013 - Feb 2014

• Collaborate with 16 staff members to organize campus activities and events

Voluntary Assistant

Cheil General Hospital & Women's Healthcare Center lab

Seoul, Korea

Dec 2011 - Feb 2012

• Managed and transformed physician notes of patients in pregnancy into an electronic data using Excel

Professional Membership _____

- American Statistical Association (ASA)
- American Heart Association
- American Association for the Advancement of Science

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