Ji-Eun Park

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Educations _____

University of North Carolina - Chapel Hill

Doctor of Philosophy in Biostatistics

Chapel Hill, NC Aug 2019 -

New York, NY

Weill Cornell Medicine, Cornell University

Master of Science in Biostatistics and Data Science

Sep 2017 - Dec 2018

Ewha Womans University

Seoul, Korea Mar 2013 - Dec 2016

Bachelor of Science in Economics

iai 2013 - Dec 2019

Davis, CA

University of California, Davis Student Exchange Program

Sep 2014 - Dec 2014

Research Experiences

Graduate Research Assistant

Chapel Hill, NC

Aug 2020 - Present

Method development to test associations between somatic mutational signatures and risk factors

Graduate Research Assistant

Chapel Hill, NC

Department of Biostatistics, UNC - Chapel Hill

Department of Biostatistics, UNC - Chapel Hill

January 2020 - Aug 2020

• Application research - single-cell trajectory analysis on mice bone-marrow data

Researcher

Baltimore, MD (remote)

May 2019 - Jul 2020

• Application research - Differential expression analysis for effect of air pollution PM2.5 on brain/liver function based on mice transcriptome

Temporary Researcher

Seoul, South Korea (remote)

JB Lab & Clinic

Aug 2018 - Jan 2020

• Identify 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 Assistant

New York, NY

Department of Health Policy & Research, Weill Cornell Medicine

Environmental Health and Engineering, Johns Hopkins University

Aug 2018 - Jun 2019

• Subpopulations with higher risk of stroke after myocardial infarction (MI) using causal inference methods

April 22, 2022

Research Assistant

Department of Health Policy & Research, Weill Cornell Medicine

March 2018 - Present

New York, NY

Project 2

• Microbiome research to determine the effects of aVISTA, Cyclophosphamide and Radiation Treatment effects on human and mice microbiome to understand the treatment effects on breast cancer.

Project 1

• Development of a comprehensive workflow for microbiome data analysis based on our analysis

New York, NY Mar 2018 - Feb 2019

Leading Project Researcher¹

Department of Health Policy & Research, Weill Cornell Medicine

New York, NY Sep 2017 - Aug 2018

• Advisor: Dr. Davide Risso

• Comparing clustering methods for analyzing Single-Cell RNA Sequencing Data

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)

Publications - In Preparation

• Ji-Eun Park, Markia Smith, Sarah Van Sarah Van Alsten, Andrea Walens, Di Wu, Katherine Hoadley, Melissa Troester, Michael Love, In preperation, Testing for Difference in Association of Mutational Signatures and Risk Factors with Hierarchical Bayesian Dirichlet-Multinomial Model (Diffsig)

Conference & Workshop Papers

• Ji-Eun Park, Wancen Mu, Yining Jiao, Michael Love, Marc Niethammer, Natalie Stanley, **MultImp: Multiomics Generative Models for Data Imputation**

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

Talks & Presentations _____

ENAR 2022

Presentation for ENAR

Austin, Texas

Mar 2022

• Introduced on-going research on developing methods for testing association between mutational signatures and risk factors

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Virtual Jul 2021

Poster presentation for ICML Comp Bio Workshop

• Introduced a data imputation method for multi-omics with generative models

Honors & Awards

2022	Travel Award, UNC Chapel Hill, Department of Biostatistics	Chapel Hill, NC
2021	ICML Computational Biology Workshop Fellowship, ICML 2021	Virtual
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

Teaching Experiences _____

Teaching Assistant, Introduction to Biostatistics

Department of Biostatistics, UNC Chapel Hill

Chapel Hill, NC Sep 2021 - Dec 2021

Teaching Assistant, Statistical Learning

Department of Healthcare Policy & Research, Weill Cornell Medicine

New York, NY May 2018 - Present

Teaching Assistant, Foundations Biomedical Applications

Department of Healthcare Policy & Research, Weill Cornell Medicine

New York, NY February 2018 - May 2018

Teaching Assistant, Categorical & Censored Data Analysis

Department of Healthcare Policy & Research, Weill Cornell Medicine

New York, NY Nov 2018 - Present

Technical Skills

Programming R, SAS, mySQL, Python, LATEX

Database Management SQL Server, MS Access

Research Interests

Statistical Genomics & Genetics, Cancer Genomics, Single-cell RNAseq, Machine Learning

Professional Membership _____

- American Statistical Association (ASA)
- Eastern North American Region (ENAR)

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