

Sung Hee Park

Institute for Informatics, Data Science and Biostatistics (I2DB), School of Medicine,
Washington University in St. Louis, St. Louis, Missouri, USA

E-mail: sunghee@wustl.edu | **Orcid:** <https://orcid.org/0000-0002-4754-2611> | **Github ID:** sparkqkr

PROFESSIONAL APPOINTMENTS

Postdoc Research Associate <i>I2DB, Washington University in St. Louis (supervised by Lei Liu)</i>	September 2023 – Present <i>St. Louis, MO</i>
<ul style="list-style-type: none">Developing statistical methods for longitudinal and multimodal biomedical dataCollaborating on NIH-funded projects related to multi-omics data	

EDUCATION

Florida State University, Department of Statistics <i>Ph.D., Statistics (advised by Xin “Henry” Zhang)</i> <i>Dissertation title: Subspace Learning Approaches to Association Analysis for Multi-modal Data</i> <i>GPA: 4.0/4.0</i>	Tallahassee, FL 2023
Florida State University, Department of Statistics <i>M.S., Statistics</i>	Tallahassee, FL 2019
Dongguk University, Department of Statistics <i>M.A., Statistics (advised by Kwan-Jeh Lee)</i>	Seoul, South Korea 2016
Dongguk University, Department of Statistics <i>B.S., Statistics</i>	Seoul, South Korea 2014

RESEARCH INTERESTS

- Dimension Reduction
- Longitudinal and Survival Analysis
- Multimodal Data Integration
- Tensor Data Analysis
- Applications in Medical Imaging and Biomechanics

PUBLICATIONS

- S. H. Park**, C. Luo, L. Liu, & L. Liu (2025+). Sparse Longitudinal Canonical Correlation Analysis
- S. H. Park**, X. Zhang, R. Zhou, G. Wang, & L. Liu (2025+). Envelope-based Linear Mixed Model with application to ADNI data. *Submitted August 2025 to Biometrics*
- S. H. Park**, X. Zhang, E. Slate, S. Sun, & H. Yao (2025+). Dimension Reduction for Characterizing Sexual Dimorphism in Biomechanics of the Temporomandibular Joint. *Under revision, submitted August 2024 to Biometrics*
- Y. Shi, L. Liu, J. Chen, K. M. Wylie, T. N. Wylie, M. J. Stout, C. Wang, H. Zhang, Y. T. Shih, X. Xu, A. Zhang, **S. H. Park**, H. Jiang, & L. Liu (2024). Simplified methods for variance estimation in microbiome abundance count data analysis. *Frontiers in Genetics*, 15, 1458851.
- S. H. Park**, R. Zhou, X. Zhang, L. Li, & L. Liu (2024). Tensor Landmark Analysis with Application to ADNI data. *Stat*, 13(4), e70014.

TEACHING

Biomedical data mining (Instructor)

Topics: resampling, logistic regression, survival analysis, nonlinear regression

Washington University in St. Louis

Spring 2024 & 2025

Statistics thru Example (Instructor)

Designed and led weekly lectures and labs for undergraduate students

Florida State University

Fall 2019 & 2021, Spring 2022 & 2023

INVITED TALKS AND PRESENTATIONS

Dynamic Association Analysis for Multimodal Data Integration

The 34th annual symposium of Applied Statistics Symposium (ICSA). Invited Conference Talk.

June 2025

Storrs, Connecticut

Tensor Landmark Analysis with Application to ADNI data

The 4th Lifetime Data Science (LiDS) Conference. Invited Conference Talk.

May 2025

Brooklyn, New York

Tensor Landmark Analysis with Application to ADNI data

I2DB Seminar Series. Invited Department Seminar.

November 2024

Washington University in St. Louis

Spline Transformation in Envelope models

Joint Statistical Meetings 2020. Student Talk.

August 2020

Virtual

Transformed dimension reduction methods for multivariate data

Korean Statistical Society Spring Conference. Poster Session.

May 2019

Kangwon National University

JOURNAL REVIEWING

Statistics in Medicine (2023 - Present)

Biometrics (2024 - Present)

Stat (2024 - Present)

Ophthalmology Science (2025 - Present)

AWARDS & HONORS

Best First Year Student Award

Awarded to top two students in Computational Statistics

2018

Florida State University

Highest Standing Award of the Paper Competition

OSHRI, Korea Occupational Safety and Health Agency

2015

Ulsan, Korea

Title: Correspondence Analysis for the Working Condition Survey Data

Dean's List (3 semesters)

Dongguk University

PROGRAMMING SKILLS

Proficient in R, Matlab, and SAS for academic purpose

Experience in C++ and Python