

# Sunghee Park

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Github: <https://github.com/positive-orange>

## Education

Ph.D. Candidate in Statistics (Advisor: Xin “Henry” Zhang), Florida State University, 2017-2022.

M.A. in Statistics (Advisor: Kwan-Jeh Lee), Dongguk University, 2016.

Dissertation: A study on dimension reduction and visualization  
using Correspondence Analysis in Categorical Data

B.S. in Statistics, Dongguk University, 2014.

Student Representative, 2013

## Research interest

Dimension Reduction

Tensor Data Analysis

Multimodal Integration

Applications: Medical Imaging, Bio-mechanics

Dimension Reduction on Categorical Data

## Research

**Multimodal Integrative Dimension Reduction and Statistical Modeling with Applications to Temporomandibular Joint (TMJ) Morphometry and Biomechanics** (supported by National Institutes of Health(NIH), 1R03 DE030509-01), June 2021 -

**Envelope Block-wise Imputation with Applications to Genomic Data Integration**, July 2020 - April 2021

**Spline transformation in Envelope models**, September 2019 - April 2020

## Teaching Experience

**Instructor**, Statistics through Example (STA1013-11 & 12), Florida State University, Spring 2022.

**Instructor**, Statistics through Example (STA1013-01 & 02), Florida State University, Fall 2021.

**Senior Grader**, Fundamental Business Statistics (STA2023-14 & 15), Florida State University, Fall 2020.

**Instructor**, Statistics through Example (STA1013-04 & 07), Florida State University, Fall 2019.

**Teaching Assistant**, Programming and Lab I, Dongguk University, Fall 2015.

Subjects: SAS/IML and SAS/SQL

**Teaching Assistant**, Statistical Consulting and Modeling I, Dongguk University, Spring 2015.

Subjects: ANOVA, regression using R and SAS

**Teaching Assistant**, Statistical Consulting and Modeling II, Dongguk University, Spring 2014.

Subjects: Data mining methods (Decision Tree, Naive Bayes, Support Vector Machine, Ensemble, Random Forest) and Text Classification using R

## Presentations

**JSM 2020**, Virtual, August 4th, 2020

Topic: Spline transformation in Envelope models

**KSS Spring Conference**, Kangwon National University, May 24th, 2019

Topic: Transformed dimension reduction methods for multivariate data

## Awards and Honors

**Best First Year Student Award** in Computational Statistics, Florida State University, 2018

**Highest Standing Award** of the 2nd Paper Competition using Korean Working Condition Survey data, Occupational Safety and Health Research Institute, Korea Occupational Safety and Health Agency, Ulsan, Korea (2015)

Topic: Analysis of KWCS data using Correspondence Analysis

**Dean's List**, Dongguk University, Korea (3 semesters during undergraduate years)

## Computer Skills

**Statistical Packages:** R (advanced level), Matlab (advanced level), Python (advanced level), SAS (advanced level)

**Programming Language:** C/C++ (Novice-High Level)

## Software

Lee, Kwan.-J., **Park, Sung.-H.**, Ha, Yi.-Y., Kim, Hye.-W., Lee, So.-H., Joo, Hae.-J. (2016). CAPI (computer assisted personal interviewing) System using Blaise (C-2016-006139). Korea Copyright Commission (Copyright link: [https://www.cros.or.kr/report/registerview.cc?reg\\_kind=S&separate=integrate&sys\\_id=G000680833](https://www.cros.or.kr/report/registerview.cc?reg_kind=S&separate=integrate&sys_id=G000680833))