Junoh Heo

heojunoh@msu.edu https://heojunoh.github.io

Education

Michigan State University, Ph.D. student in Statistics Advisor: Dr. Chih-Li Sung	East Lansing, MI, U.S.A. 2020 - May 2025 (Expected)			
Chung-Ang University, M.S. in Statistics Advisor: Dr. Wonkuk Kim	Seoul, Korea 2018 - 2020			
Chung-Ang University, B.A. in Statistics	Seoul, Korea 2013 - 2018			
Research Interests				
Computer experiments, uncertainty quantification, multi-fidelity simulation, bayesian of tics	ptimization, and engineering statis-			
Honors & Awards				
Student and Early Career Travel Fund, American Statistical Association	2024			
SPES+Q&P Travel Award, American Statistical Association's Sections on Physica and Quality and Productivity (Q&P)	and Engineering Sciences (SPES) 2024			
Outstanding Scholar Fellowship, Michigan State University	2024			
Winner, ASA Student Paper Competition, Sections on Physical and Engineering Sciences (SPES) and Quality and Productivity (Q&P)				
JRC Student Travel Award, Joint Research Conference on Statistics in Quality, Industry, and Technology 2024				
SIAM Student Travel Award, SIAM Conference on Uncertainty Quantification	2024			
COGS Conference Award, Michigan State University	2023			
Winner, INFORMS 2023 Quality, Statistics & Reliability Best Student Paper Compe	etition 2023			
Presidential Award, The Korean Statistical Society	2019			
Best Academic Achievement Scholarship for Graduate Student, Chung-Ang	University 2019			
CAU Graduate Research Scholarship, Chung-Ang University	2018, 2019			
Scholarship for Outstanding Academic Achievement, Chung-Ang University	2017, 2018			

Publications

- 3. Steensma, A. K., Kaste, J. A. M., **Heo, J.**, Orr , D., Sung, C.-L., Shachar-Hill, Y., and Walker, B. J. (2024+) Modeling With Uncertainty Quantification Identifies Essential Features of a Non-Canonical Algal Carbon-Concentrating Mechanism. Submitted.
- 2. \mathbf{Heo} , \mathbf{J} and Sung, C.-L. (2024+) Active learning for a recursive non-additive emulator for multi-fidelity computer experiments.

Technometrics, accepted.

- Winner, INFORMS 2023 Quality, Statistics & Reliability Best Student Paper Competition
- 1. \mathbf{Heo} , \mathbf{J} ., Lee, J.Y. and Kim, W. (2020) Bayesian information criterion accounting for the number of covariance parameters in mixed effects models.

 $Communications\ for\ Statistical\ Applications\ and\ Methods,\ 27(3),\ 301\text{-}311.$

Talks

2024 Joint Statistical Meetings (Aug 2024). Active learning for a recursive non-additive emulator for multi-fidelity computer experiments

 $\label{thm:conference} \mbox{ Joint Research Conference on Statistics in Quality, Industry, and Technology (Jun 2024). \mbox{ $Active learning for a recursive non-additive emulator for multi-fidelity computer experiments}$

SIAM Conference on Uncertainty Quantification (UQ24) (Feb 2024). Active learning for a recursive non-additive emulator for multi-fidelity computer experiments

2023 INFORMS Annual Meeting (Oct 2023). Active learning for a recursive non-additive emulator for multi-fidelity computer experiments

Student Seminar, Department of Statistics and Probability, Michigan State University (Oct 2023). Active learning for a recursive non-additive emulator for multi-fidelity computer experiments

Advising Experience

Chungmin Lee, Undergraduate Student (Michigan State University)

2024 -

Aditya Pendyala, Undergraduate Student (Michigan State University)

2024 -

Teaching Experience

Instructor, Michigan State University STT 200 Statistical Methods

2022 Summer

${\bf Graduate}$	Teaching	Assistant.	Michigan	State	University
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 STT 200 Statistical Methods
 2020F, 2021S, 2021F, 2022F, 2023S, 2023F

 STT 801 Design of Experiments
 2022S

 STT 864 Statistical Methods II
 2022S

Graduate Teaching Assistant, Chung-Ang University

Mathematical Statistics I2018S, 2019SMathematical Statistics II2018F, 2019FRegression Analysis2018S, 2019SMultivariate Statistical Analysis2018F, 2019F

Tutor, Chung-Ang University Mathematical Statistics I

2014S