



WORKING PAPERS

[P1] **Jeong, C.** & Byon, E., Nonparametric Functional Calibration with Multivariate Factors, In Preparation.

[P2] **Jeong, C.** & Byon, E., Direction-Dependent Functional Calibration for Wake Effect Models in Multi-Turbine Wind Farms, In Preparation.

REFEREED JOURNAL PUBLICATIONS

[J1] **Jeong, C.** & Byon, E., Explainable Parameter Calibration via Importance-Driven Sliced Sequential Design, Under Review at *Technometrics*.  
 • **Finalist, Best Student Paper Award in the QSR Section, INFORMS, 2024**

[J2] **Jeong, C.**, Byon, E., He, F., & Fang, X., Tensor-Based Statistical Learning Methods for Diagnosing Product Quality Defects, To appear in *IISE Transactions*, 2024.  
 doi: <https://doi.org/10.1080/24725854.2024.2385670>

[J3] **Jeong, C.** & Byon, E., Calibration of Building Energy Computer Models via Bias-Corrected Iteratively Reweighted Least Squares Method, *Applied Energy*, 360, 122753, 2024.  
 doi: <https://doi.org/10.1016/j.apenergy.2024.122753>

[J4] **Jeong, C.**, Xu, Z., Byon, E., Berahas, A. S., & Cetin, K., Multi-Block Parameter Calibration in Computer Models, *INFORMS Journal on Data Science*, 2:2, 116-137, 2023.  
 doi: <https://doi.org/10.1287/ijds.2023.0029>  
 • **Winner, Richard C. Wilson Prize, University of Michigan, 2023**

[J5] **Jeong, C.** & Fang, X., Two-Dimensional Variable Selection and Its Applications in the Diagnostics of Product Quality Defects, *IISE Transactions*, 54:7, 619-629, 2022.  
 doi: <https://doi.org/10.1080/24725854.2021.1904524>  
 • **Winner, Best Student Paper Award in the QCRE Division, ISERC, 2020**

REFEREED CONFERENCE PROCEEDINGS

[C1] Xu, Z., **Jeong, C.**, Byon, E., & Cetin, K., Season-Dependent Parameter Calibration in Building Energy Simulation, *Proceedings of the 2021 IISE Annual Conference*.  
 • **Finalist, Best Paper Award in the DAIS Division, ISERC, 2021**

TECHNICAL REPORT

[T1] **Jeong, C.**, The Effect of Real Estate Auction Events on Mortality Rate (Korean), CRO Report, *Credit Insight*, Summer Vol., 22-34, 2017.

INVITED TALKS

- Explainable Parameter Calibration via Sliced Sequential Design
  - INFORMS Annual Meeting, Seattle, WA (Expected) 2024
  - IISE Annual Conference, Montréal, Canada 2024
  - INFORMS Annual Meeting, Phoenix, AZ 2023
  - INFORMS DMDA Workshop, Phoenix, AZ 2023
- Multi-Block Parameter Calibration in Computer Models
  - Hyundai Vision Conference (Poster), Seoul, Korea 2023
  - INFORMS Conference on QSR, Raleigh, NC 2023
  - INFORMS Annual Meeting, Indianapolis, IN 2022
  - IMS/ASA Spring Research Conference, Virtual 2022
- Modularized Bias-Corrected Parameter Calibration
  - Institute of Energy Solutions, Ann Arbor, MI 2024
  - MSSISS Statistical Symposium, Ann Arbor, MI 2024
  - INFORMS Annual Meeting, Indianapolis, IN 2022
- Season-Dependent Parameter Calibration in Building Energy Models
  - INFORMS Annual Meeting, Anaheim, CA/Virtual 2021
  - IEEE CASE Conference, Lyon, France/Virtual 2021
  - IISE Annual Conference, Virtual 2021

	<ul style="list-style-type: none"> <li>• Two-Dimensional Variable Selection and Its Applications in the Diagnostics of Product Quality Defects <ul style="list-style-type: none"> <li>• IISE Annual Conference, Virtual <span style="float: right;">2020</span></li> </ul> </li> </ul>
TEACHING EXPERIENCE	<p><b>Graduate Student Instructor</b>, University of Michigan <span style="float: right;">8/2022 – 12/2024</span></p> <ul style="list-style-type: none"> <li>• IOE 461: Quality Engineering Principles and Analysis, Fall 2024 (Ongoing)</li> <li>• IOE 565: Time Series Analysis, Winter 2024 (Eval: 4.7/5)</li> <li>• IOE 591: Statistical Learning for Data Science, Fall 2023 (Eval: 4.9/5)</li> <li>• IOE 591: Introduction to Data Analytics, Fall 2022 (Eval: 4.5/5)</li> </ul> <p><b>Teaching Assistant</b>, North Carolina State University <span style="float: right;">8/2018 – 5/2019</span></p> <ul style="list-style-type: none"> <li>• ISE 361: Deterministic Models in OR, Spring 2019</li> <li>• ISE 311: Economic Decision Analysis, Fall 2018</li> </ul>
PROFESSIONAL EXPERIENCE	<p><b>Data Scientist</b>, National Information and Credit Evaluation <span style="float: right;">1/2016 – 6/2018</span></p> <ul style="list-style-type: none"> <li>• Developed a new business based on large-scale real estate data</li> <li>• Established credit scoring models to predict financial risks such as debts and delinquencies using real estate auction data</li> </ul> <p><b>KATUSA Soldier</b>, Eighth U.S. Army <span style="float: right;">3/2011 – 12/2012</span></p> <ul style="list-style-type: none"> <li>• Managed an effective training program with the U.S. Commander</li> <li>• Honorably discharged as a sergeant</li> </ul>
RELEVANT COURSEWORK	<ul style="list-style-type: none"> <li>• Statistics: Probability and Distribution Theory, Statistical Inference, Regression Analysis, Statistical Learning, Monte Carlo Methods, Bayesian Inference, Time Series Analysis, Categorical Data Analysis, Statistical Theory</li> <li>• Operations Research: Linear Programming, Nonlinear Programming, Stochastic Programming, Dynamic Programming, Convex Optimization, Stochastic Process I-II, Stochastic Simulation, Functional Analysis</li> </ul>
TECHNICAL SKILLS	<ul style="list-style-type: none"> <li>• Computer Programming: R, Python, MATLAB, SAS, C, MySQL, Prolog, LaTeX</li> <li>• Solver: Gurobi, CPLEX, CVX</li> </ul>
SERVICES	<ul style="list-style-type: none"> <li>• Session Chair and Organizer, INFORMS Annual Meeting <ul style="list-style-type: none"> <li>• Recent Advances in Design and Analysis of Computer Experiments (E) <span style="float: right;">2024</span></li> <li>• Modern Design and Analysis of Computer Experiments <span style="float: right;">2023</span></li> <li>• Applied Paper Presentation for DMDA Workshop <span style="float: right;">2023</span></li> </ul> </li> <li>• Faculty Advisor, Engineering Honors Capstone Project, University of Michigan <span style="float: right;">2024</span></li> <li>• Vice President, Yonsei-Michigan Student Association <span style="float: right;">2023 – 2024</span></li> <li>• President, Michigan IOE Korean Student Association <span style="float: right;">2023 – Present</span></li> <li>• Mentor, Graduate Application Mentoring Program, University of Michigan <span style="float: right;">2023</span></li> <li>• Department Representative, MSSISS, University of Michigan <span style="float: right;">2021 – 2022</span></li> <li>• Team Leader, Global Engineer Program, Yonsei University <span style="float: right;">2014</span></li> <li>• Officer, Supply Chain Student Society (MSC), Yonsei University <span style="float: right;">2010 – 2011</span></li> <li>• Staff, University Student Unions, Yonsei University <span style="float: right;">2009</span></li> </ul>

REFERENCES

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