Saeyoung Choi
Ph.D. Candidate
College of Engineering, Seoul National University
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EDUCATION

Seoul National University, Seoul, South Korea Mar 2023 – Present
- Technology Management, Economics and Policy Department, College of Engineering
- Ph.D. Candidate
- Thesis: - (Advisor: Junghye Lee)

Yonsei University, Seoul, South Korea Mar 2021 – Feb 2023
- Mechanical Engineering, College of Engineering
- M.S. in Mechanical Engineering
- Thesis: Thermodynamic analysis of solid oxide electrolysis cell system and its thermal integration (Advisor: Jongsup Hong)

Yonsei University, Seoul, South Korea Mar 2015 – Feb 2021
- B.S. in Mechanical Engineering

RESEARCH INTERESTS
- Technology Policy
- Science of Science
- Researchers' Career

RESEARCH METHODS
- Deep Learning on Sequential Data
- Deep Learning on Graph

PEER-REVIEWD PUBLICATIONS

Choi, S., & Hong, J. (2023). Versatile thermodynamic design of a solid oxide electrolysis cell system and its sensitivity to operating conditions. *Energy Conversion and Management*, *298*, 117776.

Min, G.*, **Choi, S.***, & Hong, J. (2022). A review of solid oxide steam-electrolysis cell systems: Thermodynamics and thermal integration. *Applied Energy*, *328*, 120145. (*: equally contributed)

Min, G., Park, Y. J., **Choi, S.**, & Hong, J. (2021). Sensitivity analysis of a solid oxide co-electrolysis cell system with respect to its key operating parameters and optimization with its performance map. *Energy Conversion and Management*, *249*, 114848.

WORKING PAPERS

"Homomorphic encryption-friendly deep learning for time-series classification with recurrence plot"
"Investigating potential capability of researchers with sequential recommendation"
"Dynamics-aware principle of relatedness using graph deep learning"