

## **Prof. Eunseop Yeom**

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ES Yeom received his B.S. degree at the school of mechanical engineering in Pusan National University (PNU) in 2010. He received Ph.D. degree at the department mechanical engineering of POSTECH (Pohang University of Science & Technology), Korea in 2015. After graduation, Dr. Yeom worked at the department of Mechanical Engineering of POSTECH as a Postdoctoral Researcher from 2015 to 2016. He was appointed as an Assistant professor in 2016 and have been working as an Associate professor since 2020 the PNU. Dr. Yeom's research interests include flow path design of industrial equipment, development of microfluidic system, flow visualization and experimental fluid dynamics and heat transfer. He has published 67 academic papers.

### **Title**

Thermal-fluid analysis in industrial equipment considering flow

### **Abstract**

Our research focuses on various scale thermal-fluid phenomena, combining principles from physics, chemistry, and applied mathematics. Some of our current research topics include the efficient management of fluid flow for effective thermal regulation in various devices such as refrigerators, ovens, and fuel cells. Our laboratory utilizes both experimental methods and simulations to analyze and understand these crucial thermal management processes. Some of current research topics include:

1. Design of Drain Hole in Refrigerator Fan
2. Heat Management in Solid Oxide Fuel Cell
3. Analysis of Self Cleaning in Oven
4. Prediction of Gear Pump Performance