

# Juin Yau Lim

Passionate sustainable practitioner that seek solutions with modern approaches



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## EXPERIENCE

### **Greenverse Co., MY — Research Engineer (Hybrid)**

June 2023 - PRESENT

Led research initiative on sustainable hazardous waste (HW) management, and assisted in commencement of large-scale integrated HW plants.

### **Korea University, KR — Research Professor**

March 2023 - March 2024

Conduct research related to decarbonization technologies focusing on biochar, and provide guidance to postgraduate & undergraduates.

### **Korea University, KR — Research Fellow**

March 2023 - March 2024

Analyzing the ESG performance of top 200 corporations in South Korea.

## EDUCATION

### **Kyung Hee University (Global), KR — PhD**

Feb. 2019 - Feb. 2023

**Major:** Applied Environmental Science & Engineering [CGPA: 4.0/4.3]

**Thesis:** *Comprehensive guidance on the improvement of nationwide renewable energy penetration considering overall sustainability alongside with system reliability: Power-to-X, Microalgae Biorefinery, and Hydrogen*

### **University of Nottingham, MY — M.Eng.**

Sept. 2014 - June 2018

**Major:** Chemical & Environmental Engineering [CGPA: 3.7/4.0]

**Thesis:** *Fertilizer Formulation in Oil Palm Plantation with Life Cycle Assessment and P-graph Optimization.*

## PROJECTS

### **BKT Co., KR**

Sept. 2020 - Oct. 2022

Digitalization of modern nitrogen recovery wastewater treatment plant based on two-stage partial nitrification - Anammox process.

### **Samsung Display, KR**

May 2021 - Dec. 2021

Assess the performance & analyze reaction kinetics and pathway of combustion chamber under vary operating conditions..

### **Samsung Electronics, KR**

May 2020 - Dec. 2020

Proposing optimal operating conditions for burning chamber and scrubber in compliance of air discharge limits for the semiconductor industry.

## SKILLS

Advanced data analysis

Python, Matlab, & GAMS

AI, optimization, modeling

Life-cycle analysis

Techno-economic analysis

## PORTFOLIO

**31 publications** at top tier research journal article

**7 research articles** in submissions/reviews.

**10 main participation** in conferences.

## AWARDS

### **Postdoctoral Fellowship**

Korea University, 2023-2024

### **Brain Korea 21+**

South Korea, 2019-2023

### **Presidential Scholarship**

South Korea, 2019-2021

## LANGUAGES

### **Native & fluent:**

English, Chinese, Malay, Cantonese, Hokkien, & Hakka

**Intermediate:** Korean

## MAIN INTEREST

**Renewable Energy**

**Sustainability Enhancement**

**Artificial Intelligence**

**Resources Management**

**Process System Engineering**