

Juyub Kim

#D1013, Engineering Bldg. 4, Yonsei University
50 Yonsei-ro, Seodaemun-gu, Seoul, 03722, Republic of Korea
juyub.kim@yonsei.ac.kr

Education

Yonsei University
PhD Candidate in Industrial Engineering, 2022–Present
Seoul National University
MS in Nuclear Engineering, 2011–2013
BS in Nuclear Engineering, 2002–2011

Employment

FNC Technology
Department of Nuclear Decommissioning
Manager, 2019–2024
Department of Radiation & Environment
Researcher, 2011–2019

Research Interests

Energy Economics, Econophysics, Business Analytics

Publications

The Impact of Trading Environments on Commodity Futures: Evidence from Biofuel Feedstocks' Network

Minhyuk Jeong, Kyohun Joo, Jinu Kim, Juyub Kim, Joohyung Kim, Kwangwon Ahn
Springer Proceedings in Mathematics and Statistics, 446, 367–374, May 2024 (SCOPUS)

Intelligent nuclear decommissioning solution: Code for site characterization and management of overall surveys

Hyungi Byun, Jong Dae Park, Sihyun An, Jinu Kim, Juyub Kim*, Doo Yong Lee, Bongsoo Lee
Annals of Nuclear Energy, Volume 196, February 2024 (SCIE, Q1, JCR 2024)

Scaling behavior and text cohesion in Korean texts

Hokyun Kim, Sanghu Park, Minhyuk Jeong, Hyungi Byun, Juyub Kim, Doo Yong Lee, Jooyoung Jeon, Eojin Yi, Kwangwon Ahn
PLoS ONE, 18(8), August 2023 (SCIE, Q1, JCR 2023)

Development of safety assessment code for decommissioning waste recycling and disposal

Hyungi Byun, Juyub Kim, Tae Bin Yoon, Jae Won Park
Radiation Protection Dosimetry, ncac246, December 2022 (SCIE, Q4, JCR 2022)

Development of Northeast Asia Nuclear Power Plant Accident Simulator

Juyub Kim, Juyoul Kim, Li-Chi Cliff Po
Radiation Protection Dosimetry, Volume 175, Issue 2, June 2017, Pages 217–227 (SCIE, Q4, JCR 2017)

Experiment on gas entry pressure and gas permeability of concrete silo for a low- and intermediate-level waste disposal facility in Korea

Juyub Kim, Juyoul Kim, Haeryong Jung, Jae-Chul Ha
Nuclear Engineering and Design, Volume 265, December 2013, Pages 841–845 (SCIE, Q3, JCR 2013)

Gas threshold pressure and gas permeability of silo concrete specimens for a low- and intermediate-level waste disposal facility in Korea

Juyub Kim, Juyoul Kim, Haeryong Jung, Jae-Chul Ha, Eun-Hee Kim

Annals of Nuclear Energy, Volume 55, May 2013, Pages 1–8 (SCIE, Q2, JCR 2013)

Seminar and Conference Presentations

2023

American Nuclear Society Winter Meeting, Washington D.C., USA

DECON 2022 (online), Germany

2022

Korean Nuclear Society Spring Meeting, Jeju, Korea

DECON 2022 (online), Germany

2021

Korean Radioactive Waste Society Autumn Conference, Jeongseon, Korea

Korean Nuclear Society Autumn Meeting, Changwon, Korea

DECON 2021 (online), Germany

2019

Korean Nuclear Society Spring Meeting, Jeju, Korea

2018

Korean Nuclear Society Autumn Meeting, Yeosu, Korea

Korean Nuclear Society Spring Meeting, Jeju, Korea

2017

Korean Nuclear Society Autumn Meeting, Gyeongju, Korea

ICRP-ERPW, Paris, France

2016

International Congress on Advances in Nuclear Power Plants, San Francisco, CA, USA

36th Annual Conference of the Canadian Nuclear Society, Toronto, ON, Canada

Korean Nuclear Society Autumn Meeting, Gyeongju, Korea

Korean Radioactive Waste Society Autumn Conference, Jeju, Korea

Korean Nuclear Society Spring Meeting, Jeju, Korea

2015

Korean Nuclear Society Autumn Meeting, Gyeongju, Korea

Korean Radioactive Waste Society Spring Conference, Songdo, Korea

Korean Association for Radiation Protection Spring Conference, Yeosu, Korea

Korean Nuclear Society Spring Meeting, Jeju, Korea

2014

Korean Nuclear Society Autumn Meeting, Yeosu, Korea

Korean Nuclear Society Spring Meeting, Jeju, Korea

2013

15th International Conference on Environmental Remediation and Radioactive Waste Management, Brussels, Belgium

Waste Management 2013 Symposia, Phoenix, USA

2012

12th International Conference on Radiation Shielding (ICRS12), Nara, Japan

Korean Nuclear Society Autumn Meeting, Gyeongju, Korea

Korean Nuclear Society Spring Meeting, Jeju, Korea

Korean Radioactive Waste Society Spring Conference, Changwon, Korea

2011

8th International Symposium on Radiation Safety Management (ISRSM), Gyeongju, Korea
Korean Association for Radiation Protection Autumn Conference, Yeosu, Korea

PhD Coursework

Mathematical Statistics
Stochastic Finance
Finance Intelligence
Quantum Data Science
Linear Programming
Human-Computer Interaction
Advanced Topics in Quantitative Finance
Operations Research
Accounting Information Systems

Short-term Training

Institute of Data Science, Yonsei University
Multivariate analysis using R, 2025
Linear regression using R & ChatGPT, 2025
Linear regression using R, 2022
Survival analysis using R, 2022
Network analysis using R, 2022
Machine learning using Python, 2022
Deep learning using Python, 2022

Services

Reviewer
Renewable Energy
Transportation Research Part E
Computational Economics
Cogent Economics & Finance
Humanities and Social Sciences Communications
Energy Reports
International Review of Financial Analysis

Honors and Awards

Seoul National University
Merit-based Scholarship (Academic Excellence), 2007–2010

Patents

Intelligent Management System and Method for Nuclear Decommissioning Site Characterization
South Korea, 2023
Aerosol and radiation integrated detection device of radioactive aerosol
South Korea, 2021
Real-time simultaneous monitoring system for aerosol and radiation of radioactive aerosol
South Korea, 2021
Educational and Training Simulation System for Emergency Response to Nuclear Accidents in
Neighboring Countries
South Korea, 2017

Skills

Languages

Korean, English

Computer Languages and Statistical Packages

C#, Python, C++, Fortran, Matlab, R

Editing Skills

LaTeX

Other Employment

Military Services, Korean Augmentation To the United States Army, 2004–2006

References

Kwangwon Ahn

Yonsei University

k.ahn@yonsei.ac.kr

Eun-hee Kim

Seoul National University

eunhee@snu.ac.kr