Jihoon Chung, Ph.D., LEED AP BD+C, WELL AP, FMP

| CONTACT |
|-------------|
| Information |

Grid-interactive Controls Group Oak Ridge National Laboratory Tennessee, United States

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https://j-chung.kr/

QUALIFICATION SUMMARY

- Interdisciplinary researcher specializing in Building Information Modeling (BIM), Internet of Things (IoT), and ontology, and occupant behavior modeling for enhancing indoor environmental quality and energy efficiency
- Pursuing a Ph.D. in Architectural Science at Rensselaer Polytechnic Institute, focusing on developing digital twin platform for co-simulation ecosystem for multidisciplinary simulation environments
- Developed web-based digital twin platforms integrating BIM, IoT, and Building Automation Systems (BAS) for real-time monitoring of indoor environment and occupant behaviors, leading to publications in i3CE and ICCCBE proceedings
- Collaborated with industry and academic leaders, including Autodesk, Lawrence Berkeley Lab, NASA, Solibri, Tetherless World Constellation (TWC), LESA laboratory, and OBMI
- Experienced educator and mentor, serving as a guest lecturer, project mentor, and teaching
 assistant in programming and smart IoT systems at Rensselaer Polytechnic Institute and high
 schools in NYC and San Francisco

EDUCATION

Rensselaer Polytechnic Institute, New York, United States

Ph.D., Architectural Science (Built Ecologies), GPA: 4.0/4.0, May 2025

• Advisor: Dr. Dennis Shelden

Graduate Certificates, May 2024

• Machine Learning & AI | Business Intelligence

M.S., Architecture (Design Technology), GPA: 4.0/4.0, December 2023

• Advisor: Dr. Dennis Shelden

Yonsei University, Seoul, Korea

M.S., Architectural Engineering (Construction IT), GPA: 3.97/4.0, February 2021

- Thesis: "Technical Specification Framework for 3D Concrete Printers"
- Advisor: Dr. Ghang Lee

B.Arch, Architecture (5-year program), February 2019

National University of Singapore, Singapore

Exchange Program for a year in AY2017

Gunmyungwon (건명원), Seoul, Korea

Future New School of Humanities, Arts & Science, February 2016

RESEARCH & WORK EXPERIENCE

Oak Ridge National Laboratory, Tennessee

May 2025 – Current

Postdoctoral Research Associate

• Developed generalizable building control web applications for small- and medium-sized commercial buildings by utilizing VOLTTRON, IoT sensors, and semantic models

Oak Ridge National Laboratory, Tennessee

February 2025 - May 2025

ORISE Graduate Researcher

- Participated in Graduate Research at ORNL program
- Hosted by Dr. Sen Huang

Research Assistant

- Developed prototypes of a SHACL-based IFC-to-Brick converter and an IFC4.3-to-ECS translator in collaboration with industry experts from Autodesk, Solibri, and Trimble, showcased them at the IFC Implementers Meeting of buildingSMART International
- Developed a web-based building monitoring system for occupant behavior using BIM, IoT, Building Automation System (BAS), and semantic web technologies
- Designed Arduino circuit boards and developed a web server for IoT-based plant modules to autonomously manage plant health by controlling water pumps, grow lights, and fans, as a part of Plant Pixel project sponsored by OBMI
- Organized and hosted the guest lecture series "AI Technology in Built Ecologies" as part of the 'CASE Built Ecologies Graduate Seminar', featuring four expert lecturers specializing in AI technologies within the field of built ecologies

Lawrence Berkeley National Laboratory, California Research Affiliate

January 2024 – August 2024

- Enhanced standardized occupant behavior schema (obXML v.1.4) as a part of the ASHRAE RP-1815 project
- Updated the obFMU Application Guide and IDF files in the tutorial to enhance the compatibility with the latest version of EnergyPlus (v.24.1.0)
- Converted C++-based occupant behavior simulator (obFMU) into Python version for integration with data-driven occupant behavior modeling and BIM
- Explored development of a web platform for real-time energy simulation using EnergyPlus, obFMU, and sensor data
- Hosted by Dr. Tianzhen Hong

Autodesk, New York

May 2023 – August 2023

Intern, Sustainable Active and Passive Mechanical Systems Simulation and Optimization

- Explored integration of generative design process with natural ventilation simulation for evaluating the performance of the ventilation systems at the early design stage using EnergyPlus
- The internship project was published and introduced on the Autodesk Research blog [URL]
- Volunteered to support AEC Mentor Program for underrepresented-minority teenagers who participated in a paid two-week internship at Autodesk's Boston office

Saman Corporation, South Korea

February 2021 – July 2021

Researcher

- Planned application services using real-time data collected from IoT sensors on construction sites in a national research project 'Development of and digital twin platform for smart construction'
- Assisted to prepare kick-off meetings and presentations in a national research project 'XR Flagship Project (Construction part)'
- Wrote bills of quantities in a pilot design project on a box culvert organized by Korea Expressway Corporation

Building Informatics Group, Yonsei University

February 2018 – January 2021

Research Assistant

- Proposed a technical specification framework for 3D concrete printers through a systematic literature review and a Delphi study
- Developed a multi-dimensional classification algorithm for housing defects text data using BERT-based multitask learning technique (Recurrent Neural Network)
- Explored optimization algorithm for buildability of 3D concrete printing focused on operation planning and concrete properties

ATEAM Ventures, South Korea

Strategic Planning staff

- Planned strategies for marketing & sales and held a 3D-printer exhibition at KINTEX, Ilsan
- Installed a factory to assemble 3D-printers and managed mechanical components
- Managed all customer inquiries, wrote customer manuals, and sent thank-you letters to early customer

XbarX (X X), South Korea

May 2014 – February 2015

Sales Director & Co-founder

- Launched a beer recommendation app and beer-distribution web platform
- Got partnerships with 218 beer pub, bar, and restaurant in Seoul, South Korea
- Got a shared 3rd award with a \$4,500 cash prize in 'The 3rd Chung Ju-young Start-up Competition' and funding, \$140,000 from a start-up accelerator

TEACHING & MENTORING EXPERIENCE

Rensselaer Polytechnic Institute, New York

August 2021 – Current

Guest Lecturer

• 'Node-RED 101 for your own Smart IoT-based System' in 'Internetworking of Things (ECSE-4660/ECSE-6660)' course (February 23, 2024)

Project Mentor

- Taught and led an undergraduate group in a research-oriented class 'Research Investigation (ARCH-4958)' (Fall 2022, Fall 2023 & Fall 2024)
- Advised an undergraduate to develop an algorithm evaluating plants' health using a color sensor as a part of the Plant Pixel project sponsored by OBMI (Fall 2023)
- Provided advice to undergraduates in an interdisciplinary project 'Smart Dormitory Devices and Development System (ECSE-4900)' (Fall 2022, Spring 2023 & Fall 2023)
- Participate in Smart City Hackathon 2023 organized by Tech Valley Center of Gravity as a microcontroller-knowledgeable mentor (October 13-15, 2023)

Workshop Instructor

• 'Build an IoT Monitoring System for Your Smart Home' at Black Families Technology Awareness Day (February 2022, February 2023 & February 2025)

Microsoft TEALS, New York

August 2023 – Current

Programming Teaching Assistant

- AP Computer Science Principles (Fall 2023, Fall 2024, and Spring 2025) at Franklin D Roosevelt High School, NYC
- AP Computer Science A (Spring 2024) at El Camino High School, San Francisco, CA

Lawrence Berkeley National Laboratory, California

June 2024 – July 2024

Teaching Assistant & Project Facilitator

- Intro to Python & Data Science course in Experiences in Research (EinR) bootcamp 2024 (6-week summer internship)
- Intro to Python & Data Science course in Berkeley Lab Director's Apprenticeship Program (BLDAP) 2024
- Robotics projects in Science Accelerating Girls' Engagement in STEM (SAGE) summer camp 2024

Code Nation, New York

August 2022 – June 2024

Programming Teaching Assistant

- Intro to Web Development (Spring 2024) course at Collegiate Institute for Math & Science, NYC
- Intro to Web Development (AY2022–2023) & Fellowship I (JavaScript/jQuery, Fall 2023) courses at Achievement First East Brooklyn High School, NYC

Yonsei University, South Korea

Teaching Assistant

- Engineering-Information Processing (Spring 2020)
- Computer Lab Manager (Spring 2019)

PUBLICATIONS

(*In Progress*) Chung, J., Hong, T., Malik, J. and Shelden, D. (2025) "Enhanced Library of Occupant Behavior Models and gb-obXML Schema Editor for Interoperability between Building Information Modeling and Building Energy Modeling" *Building Simulation*

(*Submitted*) Ma, N., Lu, Y., **Chung, J.**, et al. (2025) "Ten Questions Concerning High Performance Buildings for Thermal Resilience and Health "*Building and Environment*

(*Submitted*) Chung, J., Hong, T., Malik, J. and Shelden, D. (2025) "Enhancing Occupant Behavior Representation for Interoperability between Building Information Modeling and Building Energy Modeling" *Building Simulation*

Chung, J., Neo, K., Khan, M., Cruz, E., Zheng, Z., Munasinghe, T., and Wei, J. C. (2025) "Exploring Flooded Fraction Prediction through Machine Learning Models Focusing on Medical Infrastructure in the Southeast U.S. Coastal Areas" *Proceedings of the IEEE BigComp* 2025, https://ntrs.nasa.gov/citations/20250000362

Chung, J. and Shelden, D. (2024) "A Framework of ifcJSON-based Digital Twin Platform for Monitoring Building Environment using BIM, IoT, and Semantic Web Technologies" *Proceedings of the 20th International Society for Computing in Civil and Building Engineering*, Montreal, Canada, 26 Aug, https://doi.org/10.1007/978-3-031-84208-5_4

Chung, J., Karlicek, B., and Shelden, D. (2024) "Towards Real-Time Occupant Behavior Monitoring System: A Preliminary Study on Integrating BIM, IoT Sensors, and BAS" *Proceedings of ASCE International Conference on Computing in Civil Engineering 2024*, Pittsburg, USA, 29 Jul.

Chung, J., Shahmansouri, N., Stoddart, J., Goldstein, R., and Locke, J. (2024) "Sustainability through Optimal Design of Buildings for Natural Ventilation using Updated Comfort and Occupancy Models" *Proceedings of SimBuild Conference* 2024, 11, pp. 849-860, Denver, USA, 30 May, https://publications.ibpsa.org/conference/paper/?id=simbuild2024_2172

Wei, J., Gerasimov, I., Munasinghe, T., Chung, J., Cruz, E., Neo, K., Yu, Y. Z., Zheng, Z., and Khan, M. (2024) "Advancing Open Science in Atmospheric Research: Integrating Data Usability and Machine Learning" In *Asia Oceania Geosciences Society (AOGS) 2024 21th Annual Meeting*, https://ntrs.nasa.gov/citations/20240007793

Chung, J., Hong, T., Karlicek, R., Santos, H., Shelden, D., and Sparks, D. (2024) "Distributed Semantics to Support Built Environment Digital Twins" In *NSF Workshop on Sustainable Computing for Sustainability* 2024, Alexandria, USA, 17 Apr.

Chung, J., Tsamis, A., and Shelden, D. (2023) "A framework for monitoring and identifying indoor air pollutants based on BIM with IoT sensors" *Proceedings of Computer-Aided Architectural Design. INTERCONNECTIONS: Co-computing beyond boundaries: 20th International Conference, CAAD Futures 2023, pp. 518-531, Delft, Netherlands, 5 Jul., https://doi.org/10.1007/978-3-031-37189-9_34*

Chung, J., Jacoby-Cooper, G., Rook, K., Henrique, S., Shelden, D., Kendall, E., and McGuinness, D. (2023) "Towards an Indoor Environmental Quality Management Ontology" *Proceedings of First International Workshop on Semantic Web on Constrained Things @ ESWC-23 (SWoCoT-23)*, pp. 16-26, Hersonissos, Greece, 28 May, https://hdl.handle.net/20.500.13015/6674

Chung, J., Lee, G., and Kim, J. (2021) "Framework for Technical Specifications of 3D Concrete Printers" Automation in Construction, 127, 103732, https://doi.org/10.1016/j.autcon.2021.103732

(Submitted) Woo, J., Chung, J., and Koo, H. (2021) "A Study on the Pedestrian Route Choices and Accessibility in the Retail Areas after Acute COVID-19: Focused on the Peak Commercial Activity's Hours in the Mangwon District" Journal of the Urban Design Institute of Korea

Chung, J., Lee, G., Kim, J. and Choi, J. (2020) "A Comparative Analysis of the Classification System for Three-Dimensional Concrete Printers" Korean Journal of Construction Engineering and Management, 21(2), 3-14, https://doi.org/10.6106/KJCEM.2020.21.2.003

Chung, J., Lee, G., and Kim, J. (2020) "A Systematic Review of the Geographic and Chronological Distributions of 3D Concrete Printers from 1997 to 2020", Proceedings of the 37th International Symposium on Automation and Robotics in Construction (ISARC), pp. 84-19, Kitakyushu, Japan, 27-28 Oct., https://doi.org/10.22260/ISARC2020/0014

Lee, G., Cho, J., Song, T., Roh, H., Jung, J., Chung, J., Yong, G., and Jeong, D. (2020) "Construction Field Management Using a Popular Text Messenger" *Proceedings of the 18th* International Conference on Computing in Civil and Building Engineering, pp. 971-979, https://doi.org/10.1007/978-3-030-51295-8_67

Chung, J., Lee, G., and Kim, J. (2018), "Performance Evaluation Criteria for Building 3D Printing Focused on Concrete Properties", Proceedings of the 2018 Annual Conference of the Korea Institute of Construction Engineering and Management, pp. 27-29, South Korea, 9 Nov.

PATENTS

(Submitted) Chung, J., Stoddart, J., Locke, J., Goldstein, R., and Shahmansouri, N. (2024) "Automated Generation and Analysis of Natural Ventilation Performance Using Tile-based Building Geometry", USA

(Submitted) Chung, J., Stoddart, J., Locke, J., Goldstein, R., and Shahmansouri, N. (2024) "Automated Comparative Analysis of Alternative Comfort and Occupancy Models in Building Energy Analysis", USA

Kim, J., Lee, G., Lee, D., Lee, J., Chung, J. (2020), "3D printer for construction with continuous printing on the go and 3D printing system comprising it", Application Serial No. KR20200101482A, South Korea, https://patents.google.com/patent/KR20200101482A/ko9 Nov.

ARTICLE

Chung, J. (2024) "Want To Be More Comfortable Indoors? Let Your Building Help" Every Day Matters: RPI Blog, [URL]

Lee, G., Chung, J., and Kim, J. (2021) "On What Basis Should We Buy a 3D Concrete Printer?" Building Construction, 21(4), 31-34, [URL]

HONORS & AWARDS **DB Dream Master Scholarship Award** for two semesters DB Kim-Jun-Ki Cultural Foundation, South Korea

May 2024

IBPSA-USA SimBuild Conference Student Scholarship Award IBPSA-USA SimBuild Conference 2024, United States

March 2024

Graduate Research Symposium (Podium Presentations), The 3rd Prize

June 2022

Rensselaer Polytechnic Institute, New York

Research Assistantship Award for 2021-2025 academic year

August 2021

Rensselaer Polytechnic Institute, New York

The 17th Outstanding Thesis Competition, Honorable Mention Architectural Institute of Korea, South Korea

April 2021

2019 Yonsei Startup Lab Contest (\$2,700), Best Startup Award

July 2019

Yonsei University, South Korea

2018 KICEM Annual Conference, Excellent Paper Award

November 2018

Korea Institute of Construction Engineering and Management, South Korea

Academic Scholarships for four semesters

March 2016 – September 2018

Yonsei University, South Korea

The 12th Architectural Engineering Competition, Excellent Award

September 2016

The Korean Structural Engineers Association, South Korea

Volunteer Full-Scholarship for two semesters

March & September 2016

DB Kim-Jun-Ki Cultural Foundation, South Korea

The 3rd Chung Ju-young Startup Competition (\$4,500), Excellent Startup Award August 2014

The Asan Nanum Foundation, South Korea

The 18th National Boxing Competition for Non-Athlete, The 1st Prize

August 2012

Korea Boxing Institution, South Korea

Chief Superintendent's Award for Leadership

May 2011

Seoul Metropolitan Office of Education, South Korea

RESEARCH PROJECTS

Plant Pixel

August 2023 – December 2023

OBM International, United States

Development of Digital Platform and Digital Twin

February 2021 – July 2021

based on Management Technology for Smart Construction

Korea Agency for Infrastructure Technology Advancement (KAIA)

XR Flagship Project (Construction part)

June 2021 – Jul 2021

Ministry of Science and ICT & National IT Industry Promotion Agency, Korea

Development of Innovative Design, Material and

March 2018 – February 2021

Equipment for 3D Printing Small Buildings/Freeform Members
Korea Agency for Infrastructure Technology Advancement (KAIA)

PRESENTATIONS & INVITED TALKS

Digital Twin: Multidisciplinary Co-Simulation Ecosystem

December 3, 2024

GRIDD Lunch & Learn, École de technologie supérieure, University of Québec

A framework of BIM & IoT-based Building Infrastructure for Monitoring Indoor Air Quality and Occupant Behavior

September 27, 2023

Research Showcase — Reunion & Homecoming 2024, RPI [Poster]

IFC Simplification and Granular Component Demo

August 29, 2024

& IFC-LD / SHACL Implementation Developments
General Assembly of Implementers, building SMART International [Oral]

General Assembly of Implementers, buttaingSMAKI International [Oral]

A Framework of ifcJSON-based Digital Twin Platform for Monitoring August 26, 2024 Building Environment using BIM, IoT, and Semantic Web Technologies

The 20th conference of the ICCCBE [Oral]

Towards Real-Time Occupant Behavior Monitoring System

July 29, 2024

: A Preliminary Study on Integrating BIM, IoT Sensors, and BAS

2024 ASCE International Conference on Computing in Civil Engineering [Oral]

How Programming is Used in Architecture & Building Technology?

April 11, 2024

Computer Science Career Panel, El Camino High School

AGU23 Fall Meeting [Poster] A framework of BIM & IoT-based Building Infrastructure October 13, 2023 for Monitoring Indoor Air Quality and Occupant Behavior Research Showcase — Reunion & Homecoming 2023, RPI [Poster] Sustainability through Optimal Design of Buildings August 17, 2023 for NV and Post-Occupancy Using Updated Comfort Models Research Connections — Summer Intern Series, Autodesk [Oral] Daily Flooding Risk Assessment Map for Medical Infrastructures August 8, 2023 using Machine Learning Algorithm AmeriGEO Week 2023 'Data Driven Solutions for a Sustainable Planet' [Poster] A framework for monitoring and identifying indoor air pollutants July 7, 2023 based on BIM with IoT sensors 20th International Conference of CAAD Futures 2023 [Oral] Towards an Indoor Environmental Quality Management Ontology May 12, 2023 2023 8th Annual Graduate Research Symposium, RPI [Oral] A framework for monitoring and identifying indoor air pollutants May 12, 2023 based on BIM with IoT sensors 2023 8th Annual Graduate Research Symposium, RPI [Poster] Air Quality Monitoring System based on BIM & IoT November 2, 2022 EBESS Industry Workshop 'Well-being & Sustainability in the Built Environment', RPI [Poster] Air Quality Monitoring System based on BIM & IoT May 13, 2022 2022 7th Annual Graduate Research Symposium, RPI [Poster, Oral – 3rd Place] A Systematic Review of 3D Concrete Printers from 1997 to 2020 October 28, 2022 37th International Symposium on Automation and Robotics in Construction (ISARC) [Oral] Performance Evaluation Criteria for Building 3D Printing November 30, 2018 2018 Annual Conference of KICEM [Oral] **Programming Languages:** Python, C#, JAVA, C++, JavaScript (Node.js, Three.js, ifc.js, Express.is, Node-RED), P5 Processing, SPAROL, SOL CAD/CAE: Rhino (+Grasshopper, Ladybug, Honeybee, Butterfly), Revit (+Dynamo, Ladybug, Honeybee, Butterfly), Sketchup, CATIA, AutoCAD, Midas Civil Design tools: Adobe Photoshop, Illustrator, InDesign, Premiere Pro, Lightroom, Experience Design Machining: Arduino, Raspberry Pi, 3D printer, Laser Cutter Others: OpenStudio (+EnergyPlus), Contam, Functional Mockup Unit (+obFMU, EnergyPlusFMU, ContamFMU), Tensorflow (+Keras), Pytorch, SPSS, SHACL, Protégé **LEED AP BD+C** (Credential ID: 11476216-AP-BD+C) **September 20, 2024** CERTIFICATIONS U.S. Green Building Council Facility Management Professional (Credential ID: 1193106) June 27, 2024 International Facility Management Association (IFMA) WELL AP (Credential ID: WELL-AP-0000134489) **February 6, 2023**

A Daily Flooding Risk Assessment Map for Medical Infrastructures

Using Machine Learning Algorithms

International WELL Building Institute (IWBI)

SKILLS

January 22, 2024

LEED Green Associate (Credential ID: 11476216-GREEN-ASSOCIATE) **August 13, 2022** U.S. Green Building Council

2020 AI Technical Development Workshop (Image/Video Recognition)August 7, 2020
Korea Electric Power Corporation (KEPCO)

The 9th Image Recognition Application Workshop

October 19, 2019

Fast Campus (페스트캠퍼스)

The 3^{rd} Object Detection Application Workshop

September 7, 2019

Fast Campus (페스트캠퍼스)

DA BIM Specialist Intermediate Workshop

July 14, 2019

DAGROUP Urban Design & Architecture Co., Ltd

2018 BIGDATA X CAMPUS (Python-based Big Data Analysis)

June 14, 2018

Korea Data Agency

ACADEMIC SERVICE

Scientific Article Reviewer

- Building Simulation: An International Journal
- Journal of Civil Engineering and Architecture
- Journal of Civil, Construction and Environmental Engineering
- IBPSA-Australasia Building Simulation Conference 2025
- IBPSA-USA SimBuild Conference 2024
- International Conference on Electrical and Computer Engineering Researches 2024
- International Conference on Electrical, Computer, Communications and Mechatronics Engineering 2024 & 2025
- International Conference on Electrical, Computer and Energy Technologies 2025

Invited Juror

• Architectural Drawing & Representation at GSAPP, Columbia University (Fall 2023)

Judge

- Green Scholars Program Science Fair 2024
- Contra Costa County Science & Engineering Fair 2024
- Alameda County Science & Engineering Fair 2024

Application Reviewer

- Science en Accion 2024 at Berkeley Lab
- Science Accelerating Girls' Engagement in STEM (SAGE) 2024 at Berkeley Lab
- Quantum, Computing, Mathematics & Physics (QCaMP) 2024 at Berkeley Lab
- Berkeley Lab Director's Apprenticeship Program (BLDAP) 2024

Session Chair

• IBPSA-USA SimBuild 2024

Committee Member

- IBPSA-USA, Emerging Professionals and Students organizing committee, International Building Performance Simulation Association
- ASHRAE, Technical Committee, The American Society of Heating, Refrigerating and Air-conditioning Engineers

MEDIA APPEARANCES Meeting Future Talents with Diverse Dreams: 2024 DB Dream Master Scholarship Award Ceremony June 11, 2024

DB Story Blog, DB Kim-Jun-Ki Cultural Foundation, Korea [URL]

Recently Published by Autodesk Researchers

Autodesk Research Blog [URL]

CASE Doctoral Student To Conduct Fellowship at Berkeley Lab

January 10, 2024

January 18, 2024

Every Day Matters, Rensselaer Polytechnic Institute [URL]

Nurturing Blue Dreams at the School of Architecture

September 5, 2018

EBS News, South Korea [URL]

LEADERSHIP EXPERIENCE

Project leader, Rensselaer Polytechnic Institute

January 2023 – May 2024

- Led a class project with six computer-science students in *Xinformatics* and *Data Science* courses aiming to develop machine learning models for predicting flood using big data from NASA, FEMA, and HIFLD
- Had poster presentations at AGU23 Fall Meeting and AmeriGEO Week 2023
- Collaborated with Dr. Jennifer Wei, NASA Lead Scientist, and Thilanka Munasinghe, RPI Lecturer for publication

Project leader, Social Algorithm 7.0 Workshop

August 2020

- Led a team project in an international online-workshop organized by Social Algorithm Research Group
- Analyzed spatial network using Rhino + Grasshopper with Python, and conducted on-site surveys for the validation
- Based on the analysis result, submitted a journal article to *Journal of the Urban Design Institute of Korea*

Casting Director & Co-founder, We Ask, Korea

January 2013 – September 2014

- Co-founded a conference-planning organization called '젊음이묻습니다', gathering 100+NGO-interested students
- Invited 30+ celebrities to have talks with students, such as Im Kwon-taek, Ko Un, Kim Jung-man, and so on
- Got sponsorships from publishers, theatres, and student councils to implement marketing plans

The 9th Chief Representative, Global Intelligence, Korea

January 2012 – July 2013

• Directed a volunteer group consisting of 69 college students to organize mentoring programs for teenagers

VOLUNTEER EXPERIENCE Lawrence Berkeley National Laboratory, California

January 2024 – August 2024

Application Review Board / Mentor / STEM Activity Supporter

Y-Zone Project in STEM Alliance, New York *Bilingual (Korean/English) Volunteer Translator*

October 2021 – September 2022

Buinguai (Korean/English) volunteer Translator

Major Mentoring Program in Yonsei University, Korea

March 2019 – May 2021

 $Architecture\hbox{-}Major\ Mentor$

Architecture School in Junglim Foundation, Korea

August 2018 – October 2018

Architecture Tutor

Global Volunteering Program in Dongbu Foundation, Vietnam

January 2017

Student Volunteer

Student Volunteer Group in Dongbu Foundation, Korea **February 2016 – February 2017** *Volunteer & Scholarship Holder*

Global Engineering Program in Yonsei University, Indonesia

August 2016

Student Volunteer & Assistant Manager

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Seoul Junghwa Secondary School, Korea *Speech Tutor*

September 2012 – December 2012

Seoul Soongduck Primary School, Korea

March 2012 - July 2013

Speech Tutor

Kyoto International School, Japan

August 2012

Korean Tutor

REFERENCES Available upon request.