

EUNICE JUNG, AIA, LEED AP

ehjung@stanford.edu

EDUCATION

Stanford University

Ph.D., Civil and Environmental Engineering
M.S., Structural Engineering

Stanford, CA
Present
2025

Harvard University

M.Arch., Graduate School of Design, Architecture
Thesis: "Healing Spaces: A Rehabilitative Community"
Advisor: Maryann Thompson, FAIA

Cambridge, MA
2017

Korea Advanced Institute of Science and Technology (KAIST)

B.S., Civil and Environmental Engineering, *summa cum laude*

South Korea
2012

RESEARCH EXPERIENCE

Stanford University

Research Assistant for Professor Michael D. Lepech

Stanford, CA
2024 - Present

- Analyzed literature review of academic and industrial papers related to early building Life Cycle Assessment (LCA); identified potential research spaces; submitted an abstract for an international conference on sustainable systems and technology (accepted, to be presented in June 2025); conducted experiment on the application of generative Artificial Intelligence (AI) for early-stage building LCA; prepared an international informatics conference paper submission in progress

CBT Architects

Lead Researcher

Boston, MA
2022 – 2024

- Conducted a whole building LCA analysis of an 800,700 ft² Class A office tower; analyzed embodied carbon reduction strategies and impacts of design decisions throughout design phases; acted as the firm in-house LCA specialist focused on the materiality of façade and structure; created the firm's LCA process standard; consulted with the digital practice team to implement the design process
- Won Runner-Up Prize (\$30,000) as a Lead Applicant in *Embodied Carbon Reduction Challenge*, the nation's first embodied carbon reduction competition in the construction industry

Harvard Graduate School of Design

Independent study with Professor Hanif Kara

Cambridge, MA
Spring 2016

- Reviewed structural design precedents of building projects for preparation of my master's thesis; organized research findings into a 50-page printed booklet that was distributed for thesis presentation

Massachusetts Institute of Technology

Research Assistant for Professor Caitlin Mueller

Cambridge, MA
Summer 2013

- Evaluated the structural application of Grasshopper plug-ins and compared their functions; defined requirements and functions for a new structural-analysis tool for designers

Korea Advanced Institute of Science and Technology

Thesis research student for Professor Hoon Sohn

South Korea
2011– 2012

- Investigated modeling of simple structures using the Building Information Modeling (BIM) Tool; surveyed and mapped point cloud reference using the 3D laser scanner of prefabricated structures on-site

PUBLICATIONS

Jung, H., Yu, M., Wang, J., Law, K., Lepech, M. "Large Language Models Based In-Context Learning for Early Stage Building Life Cycle Assessment". Proceedings of the 59th Hawaii International Conference on System Sciences (HICSS) Jan 2026

GRANTS & FELLOWSHIPS

Google Cloud Credits Grant (\$5,000)	Oct 2025
Stanford Institute for Human-Centered Artificial Intelligence (HAI). Project: Application of Large Language Models for Early-Stage Building Life Cycle Assessment and Embodied Carbon Reduction	
Future Architect Scholarship, Boston Society for Architecture/AIA	2019
Graduate Study Grant, Harvard University, Graduate School of Design	2012 – 2017
Presidential Science Fellow , full-ride scholarship, Korea Student Aid Foundation	2007 – 2012
Undergraduate Research Program Grant, KAIST	2009 – 2010

HONORS

Best Documentation Award , <i>Human Meets AI in Scientific Research Replication Hackathon</i>	Dec 2025
Stanford Data Science Center for Decoding Universe (C4DU), awarded for excellence in replication and technical documentation among 30+ participants and 10 teams	
Runner-Up Prize (\$30,000) as a Lead Researcher , Embodied Carbon Reduction Challenge, Building Environment Plus (USGBC MA chapter) and Massachusetts Clean Energy Center	Jun 2024
Rethinking the Future Awards, Second Award, 380 Stuart	2024
A competitive international program showing the most innovative and future-ready ideas in architecture	
Green Good Design Award, 380 Stuart, The Chicago Athenaeum Museum of Architecture and Design	2024
International design honor established in Chicago in 1950 by Eero Saarinen and Charles and Ray Eames	
BosNOMA Recognition Award , Boston Chapter of National Organization of Minority Architects	2023
Awarded by BosNOMA (non-profit corporation in MA) to an individual with substantial contribution to the greater Boston architecture Community fostering Diversity, Equity, and Inclusion	
AIA Healthcare Design Award, Penn State Hershey Children's Hospital Vertical Expansion	2023
Dean's List, Department of Civil and Environmental Engineering, KAIST	2010 – 2011

INVITED LECTURES & PRESENTATIONS

Oral Presentation, *Large Language Models Based In-Context Learning for Early Stage Building Life Cycle Assessment*, Hawaii International Conference on System Sciences (HICSS), Maui, HI Jan 2026

Guest Lecturer, *Large Language Models Based In-Context Learning for Early Stage Building Life Cycle Assessment*, CEE 226: Life Cycle Assessment for Complex Systems, Stanford University Oct 2025

Invited Speaker, *Application of Generative Artificial Intelligence for Early Stage Building Life Cycle Assessment and Embodied Carbon Reduction Strategies*, Stanford Center at the Incheon Global Campus (SCIGC) Aug 2025

Lighting Talk & Poster Presentation, *Application of Generative Artificial Intelligence for Early Stage Building Life Cycle Assessment and Embodied Carbon Reduction Strategies*, International Symposium on Sustainable Systems and Technology (ISSST), Minneapolis, MN Jun 2025

Oral Presentation, Application of Large Language Models for Early Stage Building Life Cycle Assessment,
Stanford Doerr School of Sustainability (SDSS) Research Review, Stanford University May 2025

Poster Presentation, Data-driven Large Language Model Application for Early Building Life Cycle Assessment,
Data Science Conference 2025, Stanford University April 2025

TEACHING EXPERIENCE

Stanford University , Civil and Environmental Engineering	Stanford, CA
<i>Graduate Course Assistant</i>	
Life Cycle Assessment for Complex Systems, Professor Michael Lepech	Fall 2025
Studio 1: Architecture – Space, Light, and Movement, Professor Ethen Wood	Spring 2025
Studio 3: Integrated Architecture and Engineering, Professor Josh Keller	Fall 2024
• Motivated engineering students to learn the architectural design process during desk crits; advised representative skills to present design ideas; coached on Revit and Rhino skills for 3D modeling	
Engineering Economics and Sustainability, Professor Michael D. Lepech	Summer, Fall 2024, Spring 2025

Invited Reviewer

Northeastern University , First-year undergrad studio final review	Fall 2022
Northeastern University , Second-year undergrad studio Final review, Urban Walk-up Housing	Spring 2022
University of Maryland , Fourth-year undergrad studio Final review	Fall 2021
Harvard University , Graduate School of Design	Cambridge, MA
<i>Graduate Teaching Assistant</i>	
Structural Design 1, Professor Paul Kassabian	Spring 2017
Structural Design 2, Professor Martin Bechthold	Spring 2014
• Supported architecture students to conceptualize and implement structural design during office hours; coached quantitative structural problem-solving process; consulted on structural projects; graded exams	

PROFESSIONAL EXPERIENCE

Skidmore, Owings & Merrill (SOM)	San Francisco, CA
<i>Structural Engineering Intern</i>	Summer 2025

- Quantified the embodied carbon of structures and facades for complex projects; trained a simple neural network model to categorize structural members and predict their embodied carbon, combining my background in architecture and structural engineering

CBT Architects	Boston, MA
<i>Project Architect</i>	2020 – 2024

- Managed technical execution for two high-profile, 30-story high-rise development totaling 1,500,000 ft²; specialized in high-performance triple-glazed unitized curtain wall system and precast panel system of faceted curves from Schematic Design through Construction Documents phase; led multidisciplinary coordination with structural, façade, and MEP consultants; conducted iterative Window-to-Wall Ratio (WWR) analysis and thermal performance evaluations

PAYETTE Associates	Boston, MA
<i>Architect</i>	2017 – 2020

- Job Captain/BIM Manager: Managed a 50,000 ft² teaching laboratory renovation project on a college STEM building; led construction project meetings with owner and contractors

Knippers Helbig Advanced Engineering*Structural Engineering Intern*

Stuttgart, Germany

2014 – 2015

- Constructed Finite Element models and prepared structural design report; produced steel connection detail drawing sets in the Design Development phase for link bridges of a museum expansion project in LA with Renzo Piano Building Workshop
- Conducted form finding and deflection analysis of steel grid shell structure; prepared FEA models and produced structural design report of a rail station in Den Haag, Netherlands

IDEO in collaboration with Fidelity Investments and Harvard Innovation Lab*Intern at IDEO Intrapreneur Lab*

Boston, MA

Summer 2014

- One of 16 multidisciplinary Harvard students selected from over 160 to participate in a 9-week internship program; participated in classes taught by IDEO mentors on the innovation and venture creation process; developed an investment starter kit for young investors following Fidelity mentor guidelines

LICENSURE/AFFILIATIONS*Registered Architect*, The Commonwealth of Massachusetts, Architectural license number 952486

The National Council of Architectural Registration Boards (NCARB), Certificate number 98203

LEED AP BD+C, U.S. Green Building Council, number 11532275-AP-BD+C*AIA Member*, The American Institute of Architects (AIA)*Member*, Boston Society for Architecture (BSA)**SELECTED PROJECT PUBLICATIONS**

Built Environment Plus, “First-in-the-nation Embodied Carbon Challenge Spurs Action” 21 June 2024.

<https://builtenvironmentplus.org/embodied-carbon-reduction-challenge-winners>.

The Chicago Athenaeum Museum of Architecture and Design, “Three Eighty Stuart”, 5 July 2024.

<https://www.chicagoathenaeum.org/green-architecture-2024/2024/07/05/three-eighty-stuart-2023-ongoing>.

Global Design News, “Reducing embodied carbon through intentional material selection, CBT Architect’s 380

Stuart brings a whole new form and energy to Boston’s skyline – one that is softer yet charged with subtle, vertical boldness”. 1 August 2024, <https://globaldesignnews.com/reducing-embodied-carbon-through-intentional-material-selection-cbt-architects-380-stuart>.

AIA Healthcare Award, “Penn State Health Milton S. Hershey Medical Center Children’s Hospital Vertical Expansion” 17 July 2023. <https://www.aia.org/design-excellence/award-winners/penn-state-health-milton-s-hershey-medical-center-childrens-hospital-vertical-expansion>.**OUTREACH****BosNOMA** (Boston Chapter of National Organization of Minority Architects, a non-profit corporation in MA)*Co-Chair of Career Development Committee, Committee member*

2021 – 2024

- Led monthly committee meetings; raised funds and launched BosNOMA’s Architect Registration Examination (ARE) scholarship
- Won the 2023 **BosNOMA Recognition Award**, an award to an individual with substantial contribution to the greater Boston architecture Community fostering Diversity, Equity, and Inclusion
- Open Studio Series: Launched an inaugural Open Studio series of Boston Firms to introduce design professionals and share firm cultures for college students and young professionals
- BSA Women in Design/BosNOMA Mentorship Program: Organized women and minority-focused mentorship program in collaboration with the BSA WiD group, mentored university students

- Professional Development Series with Boston Society for Architecture (BSA) Emerging Professional Network and Women in Design Group
 - Panel discussions on Interviewing, 04/27/22 (Moderator), Negotiation, 03/16/22 with BSA Emerging Professional Network (Moderator), on Career Ownership, 10/19/23 (Moderator) on Project Management, 10/31/23

Carbon Leadership Forum (CLF) Boston / Northeast Hub (Boston Society for Architecture, subcommittee)

Active member

2023 – Present

- Founding member of the monthly LCA Tool User Group in the Northeastern region
- Research project awarded at the Northeast Embodied Carbon Summit in 2024

Office of Sustainability, Harvard University

2013 – 2014

Sustainability Community Leader

Cambridge, MA

- Organized yearlong sustainability plan and awareness events for the Harvard resident community

SKILLS

- Skilled in Revit, Rhinoceros, One Click LCA, SimaPro, Grasshopper, Adobe Suite, AutoCAD
- Familiar with Python, MATLAB, PyTorch, OpenSees and C++ related to computational design and machine learning
- Bilingual in English and Korean