EUNICE JUNG, AIA, LEED AP

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EDUCATION

Stanford University — Stanford, CA
Ph.D., Civil and Environmental Engineering — Present
M.S., Structural Engineering — 2025

Harvard University — Cambridge, MA
M.Arch., Graduate School of Design, Architecture — 2017
Thesis: *"*Healing Spaces: A Rehabilitative Community*"*
Advisor: Maryann Thompson, FAIA

Korea Advanced Institute of Science and Technology (KAIST) — South Korea
B.S., Civil and Environmental Engineering**,** *summa cum laude* — 2012

RESEARCH EXPERIENCE

Stanford University — Stanford, CA
Research Assistant for Professor Michael D. Lepech — 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 — Boston, MA
Lead Researcher — 2022 – 2024

- Conducted a whole building LCA analysis of an 800,700 ft^2 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 — Cambridge, MA
Independent study with Professor Hanif Kara — 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 — Cambridge, MA
Research Assistant for Professor Caitlin Mueller — 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 — South Korea
Thesis research student for Professor Hoon Sohn — 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, *Human Meets AI in Scientific Research Replication Hackathon* 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
Graduate Course Assistant
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
Graduate Teaching Assistant
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
Structural Engineering Intern 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
Project Architect 2020 – 2024

- Managed technical execution for two high-profile, 30-story high-rise development totaling 1,500,000 ft^2; 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
Architect 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 Stuttgart, Germany
Structural Engineering Intern 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** Boston, MA
Intern at IDEO Intrapreneur Lab 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