Sohyun Jin (Pronunciation: Soh-yun. Pronouns: she/her)

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Education

Carnegie Mellon University   Pittsburgh
Master of Science in Computational Design   Expected May 2025
Cumulative GPA: 3.90 / 4.30
- Honors: SoA Merit Scholarship (2023 - 2025). Outstanding Performance Commendation (Spring 2024).
  Alwin Cassens, Jr. Memorial Fund in Architecture (Fall 2024).
  Frank-Ratchye Further Fund (Fall 2024).
- Relevant Coursework: Wep application development, Principles of Imperative Computation, Generative System Design

Yonsei University   South Korea
Bacheler of Architecture, Department of Engineering, Minor in Business   Feb 2014
Cumulative GPA: 3.83 / 4.30
- Honors: National Engineering Full Scholarship (2008 - 2013). Yonsei Eagle Full Scholarship (2008).
  First Place, "A way to Han river" B.Arch Graduation Thesis (2014).
  Grand Prize, Award of $10,000 Prize, "Urban Jungle Gym" POSCO (2013).
- Relevant Coursework: Design Studio, Enviornmental Control System, Building Construction, Thermal Enviornment of Building

Research Experience

Carnegie Mellon University   Pittsburgh
Generative Fabrication Lab   Current
- Research into geometry, mechanical assemblies, and computation
- Proceed with the related project," A minimal making grammar", including a workshop and exhibition in
  collaboration with Sheen Cao, under the supervision of Daniel Cardoso Llach.

Carnegie Mellon University   Pittsburgh
Design Research Collective Lab Researcher   Current
- Participating in lab meetings, gaining insight into ongoing design research projects, exploring research directions

Carnegie Mellon University   Pittsburgh
Architectural Robotics Research   Spring 2024
- Research on material characterization of Construction & Demolition(C&D) fines for binder jet printing

Yonsei University   South Korea
Building Information Group   2012-2013
- Undergraduate Research Assistant, Testing assistant for a smart exit sign system based on a wireless
  sensor network.

Work Experience

AWA Architects   South Korea
Associate Architect   July 2021 - Dec 2022
- Project coordinator, façade design of commercials, building materials research & analysis

Ublo Inc. + VS-A Korea   South Korea
Project Manager   Dec 2018 - July 2021
- Product R&D: mold design for mass production, performance tests, patent, production management,
  glass structure calculation, communication, website design, façade design, reserach.

Designcamp Moonpark dmp   South Korea
Junior Architect   Jan 2015 - Dec 2018
- Complex geometry 3D drafter, generative design , shape optimization & rationalization

The System Lab   South Korea
Junior Architect   June 2014 - Nov 2014
- Organic form finding mainly with T-splines of Rhino plug-in, 3D print/CNC with post-processing

Licenses and Certifications

- Korea Institute of Registered Architects (KIRA)

- Certified Architectural Engineer, Human Resources Development Service of Korea

Publications and Articles Featuring Work

Jin, S., & Cardoso Llach, D. "A Minimal Making Grammar for 3-D Structures", *CAADRIA 2025, Mar. 2025.*
- A refereed publication

Jin, S. "The Works of Rookies" *A&C Architecture Magazine vol.391, Dec. 2013, pp.191.*
- One of six selected graduation theses of 2014

Jin, S., Shin, B., Lee, H. "2013 Posco Steel Design Festa" *C3 KOREA vol.349, Sep. 2013, pp.16-17.*
- A winning design proposal for the POSCO steel design competition

Lectures and Conference Presentations

Guest Instructor, "Kinetic Architecture"　　　　　　　　　　　　　　South Korea
Soongsil University　　　　　　　　　　　　　　　　　　　　　　　　　Nov. 2021
- Introduced architecture case studies on Kinetic Media and Mobile Façade, and conducting a processing demonstration

Guest Instructor, "Introduction to Architecture Design Practice"　　South Korea
Soongsil University　　　　　　　　　　　　　　　　　　　　　　　　　April 2021
- Introduced academic and professional works related to architectural and connected industries

Webinar Speaker, "Personalized Ventilation Windows R&D"　　　　　　Malaysia
Zak World of Façades, Virtual Conference　　　　　　　　　　　　　　Aug. 2020
- On behalf of VS-A Korea, delivered a presentation on the VS-A Group research project, the customized design window Ublo and Ufo, named after Uf=0, meaning U-value for frame is zero.

Conference Exhibitor, "Ublo and UF0, Two Innovative Façade Components"　　Finland
Glass Performance Days (GPD)　　　　　　　　　　　　　　　　　　　June 2019
- Participated as a Ublo engineer at an expo booth. Introduced the system to visitors, built networks for future partnerships in related industries, and sought opportunities with distributors abroad.

Assistant Instructor, "Architectural Education for Children with their Parents"　South Korea
Department of Culture and Arts, Suwon City Hall　　　　　　Mar. 2019 - June 2019
- Role: Provided guidance to students on various activities, such as making a paper craft building with a template and a three-dimensional card.

Exhibition

Urban Jungle Gym,　　　　　　　　　　　　　　　　　　　　　　　South Korea
Posco Center Building and Posco A&C Building　　　　　　　　　　　　　　2013
- As a competition winning team
- A three-month exhibition, in collaboration with two members; Byungchul Shin and Hyun-a Lee

Folding Chair, Yonsei University + ETH Zurich　　　　　　　　　　　South Korea
Mirae Asset Center1　　　　　　　　　　　　　　　　　　　　　　　　　2013
- A two-week exhibition, in collaboration with Joonhaeng Lee

Leadership

Carnegie Mellon University　　　　　　　　　　　　　　　　　　　　Pittsburgh
Computational Design Lab Manager / Web Master　　　　　　Fall 2023 - Current
- Organized and Hosted Regular Social Events for the Lab

CLP Korean Class at Carnegie Library of Pittsburgh　　　　　　　　Pittsburgh
Volunteer teacher　　　　　　　　　　　　　　　　　　　　　Fall 2023 - Current
- Instructing advanced Korean language classes every Saturday

Skills

- Programming: Python (Django, Numpy, OpenCV), JavaScript, HTML, CSS, P5.js, Processing, C

- Software: Rhino (with GhPython, RhinoPython), AutoCAD, Sketch Up, Adobe Suite, TouchDesigner, Unity, Solidworks

- Prototyping: Skilled in 3D printing, laser cutting, CNC, woodshop tools, injection molding, CRP weaving, Arduino, Particle

- Key skills: Strong communicator, able to effectively collaborate with researchers across diverse fields.