

Xuan Liu

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Education Background

Harvard University Graduate School of Design	MDes in Technology (Architecture Department)	09/2020-03/2023
Massachusetts Institute of Technology	Cross Registration (Arch, DUSP, Media Lab)	09/2020-03/2023
Beijing Jiaotong University	Bachelor of Architecture (National Scholarship Prize)	09/2015-06/2020

Work Experience

Gensler Architectural Intern | Shanghai, China 10/2021-12/2021

- *Yangzhou Center Creative Activity Zone*: Participated in project understanding of three main plots; presented urban data visualization and new generation of CBD.
- *Bailian Sanya UNEX Tourism Mixed-use*: Conducted research on parametric operable canopy system; simulated environmental performance in Climate Studio.
- *Funing New South CBD Wanda Mall*: Focused on Wanda Commercial Properties; programmed version 4.0 of HOPSCA; vernacularized natural and cultural narrative.
- *Fosun Taicang FOLIDAY Town*: Constructed brand identity; prototyped pedestrian bridge via Math.Sin morphology; experimented with canopy material and fabrication.
- *Guangzhou Design Week*: Prepared keynote speech of "Reinventing Public Realm in Mixed-use"; reinterpreted urban intensification and "interior urbanism".
- *gPlanet Collaboration*: Practiced gFloorz 2.0 in NFORM Ecosystems; customized real-time data feedback, semi-automation, and rule-based layout algorithms.

ECADI Architectural Intern | Shanghai, China 08/2021-10/2021

- *Renovation of Urumqi Airport Design*: Optimized the parametric roof using Grasshopper C#; assisted the construction documents with BIM consultants.
- *Interior Design of Hohhot Airport*: Conducted research on the membrane structure; developed schematic design of luggage claim space; detailed interface materials.

THAD Architectural Intern | Beijing, China 12/2020-02/2021

- *Green Building Research Center*: Participated in the research of environmental performances of public building; calculated and compared operating metrics.
- *Cooperated with Austria Coop Himmelblau*: Enrolled in the International Competition of Chongqing Innovation Zone; took charge of site design and concept model.

FCJZ Architectural Intern | Beijing, China 10/2019-01/2020

- *Campus Planning of Academy of Chinese Art in Zhuozhou*: Contributed to façade design, daylighting analysis and activity study of residential/learning space.
- *Cultural Renovation of Longfu Temple Hotel*: Detailed interior material construction; prototyped landscape sculpture design; developed hotel room intelligent lighting.
- *Interior Design of 21-Cake Store in Baoshan*: Fabricated wooden trolley with function of display and storage; modulated furniture design and eating scenario.
- *Tea Set Product Design*: Customized retro tea sets with brand identity; tested material combination and assembly; researched on thermal insulation properties.
- *Academy of Chinese Art, Liangzhu Campus*: Investigated in on-site material construction; prepared modeling of construction document of the activity center.

Research Experience

ASRI Teaching Assistant | Beijing, China 03/2021-07/2021

- *Workshops*: 1) Data Science and Built Environment; 2) Design Systems with Grasshopper C#; 3) Proto Regeneration – From Adaptive Material to Responsive Environment.

TechArt Research Assistant | Beijing, China 05/2020-08/2020

- *Publication*: "Applications of Machine Learning Methods for Predicting the Risk of COVID-19 in Beijing Based on Multifaceted Data", submission to SimAUD 2021.

CABR Research Assistant | Beijing, China 06/2020-07/2020

- *Smart City Institute*: Intelligent parking lot system in Xiaogan; Forum of Parking Industry Finance; infrastructure supply chain of smart elderly service in Guizhou.

DigitalFutures Research Assistant | Shanghai, China 06/2019-07/2019

- *Tensioned Formworks for Concrete Shells*: COMPAS in Python for computational design and fabrication; research on curved-folding based semiology, publication of "Self-rescue of the Dead City — the Construction of Information Entropy Self-organizing Model Based on the Healing of Urban Aphasia Space", 2019 IOP Conference Series.

Others

Honors & Awards Asian Design Award | Dream Apartment | Anxious Architecture | Beijing Design Week | Beijing Construction Festival

Skills Modeling (Rhino/Grasshopper/Revit/MAYA/SketchUP/CAD/ArcGis) | Rendering (VRay/Enscape/Lumion/Keyshot/Unity/C4D) | Graphics (Adobe Photoshop/Illustrator/InDesign/Premiere/After Effects) | Programming (C#/Python/Processing/Arduino/Machine Learning)

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