

Jeremy Chen

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EDUCATION

University of California, Berkeley, USA

Master of Architecture

Aug. 2021 - present

Graduate Certificate in New Media, Applied Data Science, Geospatial Information Science and Technology

- Highlight Course: Robotic Fabrication and Construction, Interaction Design, Agile Engineering Practice, Principles and Techniques of Data Science, Research Design and Application for Data and Analysis, Theory and Practice of Tangible User Interfaces, Daylighting in Architecture

National Taiwan University (NTU), Taiwan

Bachelor of Science in Civil Engineering

Sep. 2015 - Jun. 2020

Best All-Round Student Award, Department of Civil Engineering, NTU

2018, 2019

- Highlight Course: Shape Aesthetics and Design, Design and Construction of Wood Structures (I), Physical Model Design Laboratory, Stage Craft (I), Color Scheme, Keystone Challenge, Capstone Challenge

Architectural Engineering Program

Sep. 2015 - Jun. 2020

- Highlight Course: Building Environment Control, Human Environment Relations, Behavior and System of Architectural Structure

Bauhaus-Universität Weimar, Germany

Exchange Student

Sep. 2019 - Mar. 2020

Government Scholarship for Studying Abroad, Ministry of Education Taiwan

Full Scholarship

Scholarship for Studying Abroad, Department of Civil Engineering, NTU

- Highlight Course: Digital Cultures: An Introduction for the Digital Professions

WORK EXPERIENCE

Morphing Matter Lab

Jun. 2024 - present

Student Intern

City Science Lab @ Taipei Tech

Jul. 2023 - Aug. 2023

UROPE Intern

- Lost Item Retrieval Using Swarm Intelligence

Mu. Studio

Jul. 2022 - Aug. 2022

Research Intern

- Design for glueless fabrication / installation and resistance to fire
- Use computational methods to explore geometric timber slab designs that are adhesive-free, environmentally friendly, less costly to manufacture, and fire-resistant.

NCREE - NTUCE Joint Artificial Intelligence Research Center

Jul. 2019 - Aug. 2019

Summer Intern Program

- Use parametric modeling to generate different geometric patterns
- Learn Molecular Dynamics (MD) simulation methods
- Predict properties and performance of composite materials

Envision Engineering Consultants (EEC)

Jul. 2018 - Aug. 2018

Structural Intern

- Structural Design & Simulation; Review structural design drawings
- Communicate with architectural firms
- Create presentation drawings and materials, Cost Estimating

KRIS YAO | ARTECH

Jul. 2017 - Apr. 2018

Architectural Intern

- Design Development: 3D computer modeling, physical model making
- Review design drawings and construction drawings
- Meeting with engineering consultants, contractors and clients

Wooden Structure Design - Teaching Assistant

May. 2020 - Jun. 2020

Redesign and Reconstruction of Existing Wooden Pavilion

- Facilitate communications between students, teachers, and construction contractors
- Teach woodwork, metalwork, and glulam beams production

Keystone Challenge & Joint Workshop - Teaching Assistant

- Interactive Light & Sound Installation (New Media Art + Architecture + Engineering)* **Feb. 2019 - Mar. 2019**
Floating Structure Under Extreme Weather Conditions (Architecture + Engineering) **May. 2019 - Jun. 2019, Jun. 2020**
- Design Development and Structural Analysis Assistance
 - Communications between different fields of students, teachers and local residents

Fundamentals of Architectural Design - Teaching Assistant

- Apr. 2019 - Jun. 2019**
- Design Development Assistance & Woodwork Tutor of 1:1 wooden chair project

WORKSHOPS & ACADEMIC ACTIVITIES

2022/2023 ABM DigitalFUTURES Workshop

Institute for Computational Design and Construction (ICD), University of Stuttgart
Department of Architecture, Tongji University

- Experiments in Agent-Based Collective Robotic Construction **Jun. 2023**
- Use Agent Based Modeling to design an Inflatable Interactive Structure **Jun. 2022**

2022 Robotic Rod Bending Workshop

Department of Architecture, National Cheng Kung University (NCKU)

- Discrete Design and Robotic Fabrication **Aug. 2022**

The Future of Construction Symposium + Workshops & Tours, ETH Zürich

- Symposiums on Construction Robotics and Computational Design for Sustainable Construction **Jun. 2022**

2021 Shape Machine Workshop

Graduate Institute of Architecture, National Chiao Tung University

- Shape Grammar & Shape Machine **Jan. 2021**

2020/2022 Sinking Legacy Workshop

Department of Architecture, Tamkang University

- Form-Finding & Fabrication; Robotic & AR Timber Fabrication; Digital design & Optimization **Jul. 2020 - Aug. 2020**

Form-Finding Workshop

Structural Design and Special Structures, Delft University of Technology (TU Delft)

- Exploration on digital and physical form-finding models **Feb. 2020**

2019 Student Summer Seminar

Architectural Institute of Japan, Tokyo

- Structural Art of Accumulation / Transformation - ASDO Awards **Jul. 2019**

Structural Design Workshop

Department of Architecture, National Cheng Kung University (NCKU)

- Designer and team leader of a structure art that can be easily carried, assembled and demolished **Apr. 2018, Apr. 2019**

2018 Tsinghua Architecture and Culture Seminar

School of Architecture, Tsinghua University, Beijing

- Learn the history and theory of architecture and urban designs in Beijing **Jul. 2018**

NTUST - Chulalongkorn University Joint Architecture Design Studio

Department of Architecture, National Taiwan University of Science and Technology

- Tutor of Behavior and System of Architectural Structure **May. 2018**

Unidentified Funicular Objects

Block Research Group, ETH Zürich

- Collaborate on a large scale form-finding structural art with engineers, architects and artists **Jul. 2017**

SKILLS

Manufacturing

- Metalwork, Woodwork, Robotic Fabrication, OMAX Waterjet Cutting, Structural and Architectural Modeling, Laser Cutting, 3D Printing, CNC, Zund, Composite Material, fundamental synthetic biology wet lab skills

Digital Tools

- Rhinoceros 3D, Grasshopper, KUKA prc, ETABS, Climate Studio, AutoCAD, Blender, Fusion 360, Vray, Photogrammetry | Photoshop, Illustrator, Lightroom, Premiere Pro, InDesign, Figma | Java, Python, Pandas, Arduino, Processing, P5.js

OTHER ACTIVITIES

iGEM@Berkeley

2024

Bioprinting@Berkeley

2023

Cal Origami

2022

NTU Civil Engineering Buddy Program

2018, 2020

NTU Civil Engineering Student Association

2017 - 2018

Vice President, Department Journal Co-editor

Photographer

NTU Japanese Language and Literature

2017, 2018

Annual Performance

2018

Graduation Performance

2016

NTU Art Festival

2016

NTU College of Bio-Resources & Agriculture Prom