# Jeremy Chen

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# **EDUCATION**

# University of California, Berkeley, USA

Master of Architecture

Aug. 2021 - present

Graduate Certificate in New Media

· 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

## 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 **Full Scholarship** 

Government Scholarship for Studying Abroad, Ministry of Education Taiwan Scholarship for Studying Abroad, Department of Civil Engineering, NTU

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

# WORK EXPERIENCE

#### Mu. Studio

Research Intern Jul. 2022 - Aug. 2022

- Design for glueless fabrication / installation and resistance to fire
- Use computational methods to investigate geometric arrangements for which slab elements can be created which have a lower impact on environment (adhesive-free), have less capital-intensive manufacturing processes, and which are inherently resilient against runaway burning in the event of fire

## NCREE - NTUCE Joint Artificial Intelligence Research Center

Summer Intern Program

Jul. 2019 - Aug. 2019

- 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)**

• Structural Design & Simulation

Jul. 2018 - Aug. 2018

- Communicate with architectural firms
- Create presentation drawings and materials
- Cost Estimating

Structural Intern

· Review structural design drawings

#### 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**

Redesign and Reconstruction of Existing Wooden Pavilion

May. 2020 - Jun. 2020

- Communications between students, teachers, and construction contractors
- Teach students how to do woodwork, metalwork, and the production of glulam beams
- On-site communications and execution

<b>Keystone Challenge &amp; Joint Workshop - Teac</b>	ching Assistant	
Interactive Light & Sound Installation (New Me		Feb. 2019 - Mar. 2019
Floating Structure Under Extreme Weather Con	ditions (Architecture + Engineering)	May. 2019 - Jun. 2019,
<ul> <li>Design Development and Structural Analysis A</li> </ul>		Jun. 2020
<ul> <li>Communications between different fields of st</li> </ul>	udents, teachers and local residents	
Fundamentals of Architectural Design - Teac	_	Apr. 2019 - Jun. 2019
Design Development Assistance & Woodwork	Tutor of 1:1 wooden chair project	
WORKSHOPS & ACADEMIC ACTIVIT	TIES	
2022 Robotic Rod Bending Workshop		Aug. 2022
Department of Architecture, National Cheng Ku	ng University (NCKU)	
Discrete Design and Robotic Fabrication		_
2022 ABM DigitalFUTURES Workshop	· (TGD) II · · · · · · · · · · · · · · · · · ·	Jun. 2022
Institute for Computational Design and Constru		
• Use Agent Based Modeling to design an Inflatal		Town 2000
The Future of Construction Symposium + Wo • Symposiums on Construction Robotics and Con-	<del>-</del>	Jun. 2022 ruction
2021 Fall Ancient Future Technology, MIT Mo	edia Lab	Sep. 2021 - Dec. 2021
• Global Listener		_
2021 Shape Machine Workshop		Jan. 2021
Graduate Institute of Architecture, National Chi	ao Tung University	
<ul> <li>Shape Grammar &amp; Shape Machine</li> </ul>		
2020/2022 Sinking Legacy Workshop		Jul. 2020 - Aug. 2020
Department of Architecture, Tamkang Universit	ty	Jul. 2022 - Aug. 2022
<ul> <li>Form-Finding &amp; Fabrication; Robotic &amp; AR Tir</li> </ul>	nber Fabrication; Digital design & Optimiz	zation
Form-Finding Workshop		Feb. 2020
Structural Design and Special Structures, Delft		
<ul> <li>Exploration on digital and physical form-findir</li> </ul>	ng models	
2019 Student Summer Seminar		Jul. 2019
Architectural Institute of Japan, Tokyo		
Structural Art of Accumulation or Transformat	tion - ASDO Awards	
Structural Design Workshop		Apr. 2018, Apr. 2019
Department of Architecture, National Cheng Ku	-	
Designer and team leader of a structure art that	•	
and demolished with the concept of accumulat		I-l and
2018 Tsinghua Architecture and Culture Sem		Jul. 2018
School of Archicture, Tsinghua University, Beijin		
• Learn the history and theory of architecture an NTUST - Chulalongkorn University Joint Arc		May 2019
Department of Architecture, National Taiwan U	O	May. 2018
Tutor of Behavior and System of Architectural		
Unidentified Funicular Objects	Structure	Jul. 2017
Block Research Group, ETH Zürich		oui. 201/
• Learn digital and physical form-finding metho	ds. fabrication skills	
Collaborate on a large scale structural art with		
SKILLS	OTHER ACTIVITIES	
Manufacturing	Bioprinting@Berkeley	2023
• Metalwork, Woodwork, Robotic Fabrication,	Cal Origami	2022
OMAX Waterjet Cutting, Structural Modeling,	NTU Civil Engineering Buddy Prog	
Architectural Modeling, Laser Cutting, 3D	NTU Civil Engineering Student Ass	,
Printing, CNC, Zund, Composite Material	Vice President, Department Joi	
Digital Tools	Photographer	
<ul> <li>Rhinoceros 3D, Grasshopper, KUKA prc, ETAE</li> </ul>		terature
Karamba3D, AutoCAD, Blender, Fusion 360,	Annual / Graduation Perfo	
Houdini, Vray   Photoshop, Illustrator, Lightro		2018
InDesign, Figma   Java, Python, Pandas, Ardui	ino, NTU College of Bio-Resources &	& Agriculture Prom <b>2016</b>
Processing Dr is HTML CCC		

Processing, P5.js, HTML, CSS