# Jeremy Chen

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# **EDUCATION**

# University of California, Berkeley, USA

Aug. 2021 - present

Master of Architecture

Graduate Certificate in New Media, Graduate Certificate in Applied Data Science

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

**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

#### City Science Lab @ Taipei Tech

Jul. 2023 - Aug. 2023

**UROP** Intern

Mu. Studio Jul. 2022 - Aug. 2022

Research Intern

- 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

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

- 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

Verstane Challenge & Isint Workshop Too	Ling Aggistant	
Keystone Challenge & Joint Workshop - Teac Interactive Light & Sound Installation (New Me	· ·	Feb. 2019 - Mar. 2019
Floating Structure Under Extreme Weather Con-		May. 2019 - Jun. 2019,
• Design Development and Structural Analysis A		Jun. 2020
Communications between different fields of str		9un. 2020
Fundamentals of Architectural Design - Teach		Apr. 2019 - Jun. 2019
• Design Development Assistance & Woodwork		11p1: 2019 - 0uii: 2019
Design Development russistance & woodwork	Tutor of 111 wooden chair project	
WORKSHOPS & ACADEMIC ACTIVIT	TES	
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		Jun. 2022
Institute for Computational Design and Constru		
<ul> <li>Use Agent Based Modeling to design an Inflatab</li> </ul>		
The Future of Construction Symposium + Wo	-	Jun. 2022
<ul> <li>Symposiums on Construction Robotics and Con</li> </ul>	nputational Design for Sustainable Const	ruction
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		Jul. 2022 - Aug. 2022
<ul> <li>Form-Finding &amp; Fabrication; Robotic &amp; AR Tin</li> </ul>	nber Fabrication; Digital design & Optim	
Form-Finding Workshop		Feb. 2020
Structural Design and Special Structures, Delft l		
<ul> <li>Exploration on digital and physical form-finding</li> </ul>	g models	
2019 Student Summer Seminar		Jul. 2019
Architectural Institute of Japan, Tokyo		
Structural Art of Accumulation / Transformation	on - ASDO Awards	
Structural Design Workshop		Apr. 2018, Apr. 2019
Department of Architecture, National Cheng Ku	-	
<ul> <li>Designer and team leader of a structure art that</li> </ul>	t can be easily carried, assembled and de	molished
2018 Tsinghua Architecture and Culture Sem		Jul. 2018
School of Archicture, Tsinghua University, Beijir	_	
<ul> <li>Learn the history and theory of architecture an</li> </ul>	d urban designs in Beijing	
NTUST - Chulalongkorn University Joint Arc	hitecture Design Studio	May. 2018
Department of Architecture, National Taiwan U	niversity of Science and Technology	
<ul> <li>Tutor of Behavior and System of Architectural</li> </ul>	Structure	
<b>Unidentified Funicular Objects</b>		Jul. 2017
Block Research Group, ETH Zürich		
<ul> <li>Learn digital and physical form-finding method</li> </ul>	ls, fabrication skills	
• Collaborate on a large scale structural art with	engineers, architects and artists	
SKILLS	OTHER ACTIVITIES	
Manufacturing	Bioprinting@Berkeley	2023
• Metalwork, Woodwork, Robotic Fabrication,	Cal Origami	2022
OMAX Waterjet Cutting, Structural Modeling,	NTU Civil Engineering Buddy Prog	gram 2018, 2020
Architectural Modeling, Laser Cutting, 3D	NTU Civil Engineering Student Ass	•
Printing, CNC, Zund, Composite Material	Vice President, Department Jo	•
Digital Tools	Photographer	
• Rhinoceros 3D, Grasshopper, KUKA prc, ETAB		iterature
Karamba3D, Climate Studio, AutoCAD, Revit,	Annual Performance	2017, 2018
Blender, Fusion 360, Houdini, Vray   Photosho		2018
Illustrator, Lightroom, Premiere Pro, InDesign		2016
Figma   Java, Python, Pandas, Arduino, Proces		
D-:-	_	-

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