Jeremy Chen

Phone: +1 510-710-8895 Email: jcmchen@berkeley.edu

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

Sep. 2015 - Jun. 2020

Bachelor of Science in Civil Engineering

2018, 2019

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

· 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

Sep. 2015 - Jun. 2020

Architectural Engineering Program

• Highlight Course: Building Environment Control, Human Environment Relations,

Behavior and System of Architectural Structure

Bauhaus-Universität Weimar, Germany

Sep. 2019 - Mar. 2020

Full Scholarship

Exchange Student

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

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

Keystone Challenge & Joint Workshop - Teaching Assistante communications and execution *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, • Design Development and Structural Analysis Assistance Jun. 2020 • 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 Robotic Rod Bending Workshop Aug. 2022 Department of Architecture, National Cheng Kung University (NCKU) • Discrete Design and Robotic Fabrication 2022 ABM DigitalFUTURES Workshop Jun. 2022 Institute for Computational Design and Construction (ICD), University of Stuttgart • Use Agent Based Modeling to design an Inflatable Interactive Structure The Future of Construction Symposium + Workshops & Tours, ETH Zürich Jun. 2022 • Symposiums on Construction Robotics and Computational Design for Sustainable Construction 2021 Fall Ancient Future Technology, MIT Media Lab Sep. 2021 - Dec. 2021 • Global Listener 2021 Shape Machine Workshop Jan. 2021 Graduate Institute of Architecture, National Chiao Tung University · Shape Grammar & Shape Machine 2020/2022 Sinking Legacy Workshop Jul. 2020 - Aug. 2020 Department of Architecture, Tamkang University Jul. 2022 - Aug. 2022 • Form-Finding & Fabrication; Robotic & AR Timber Fabrication; Digital design & Optimization **Form-Finding Workshop** Feb. 2020 Structural Design and Special Structures, Delft University of Technology (TU Delft) · Exploration on digital and physical form-finding models 2019 Student Summer Seminar Jul. 2019 Architectural Institute of Japan, Tokyo • Structural Art of Accumulation or Transformation - ASDO Awards Apr. 2018, Apr. 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 with the concept of accumulation / transformation 2018 Tsinghua Architecture and Culture Seminar Jul. 2018 School of Archicture, Tsinghua University, Beijing • Learn the history and theory of architecture and urban designs in Beijing NTUST - Chulalongkorn University Joint Architecture Design Studio May. 2018 Department of Architecture, National Taiwan University of Science and Technology • Tutor of Behavior and System of Architectural Structure **Unidentified Funicular Objects** Jul. 2017 Block Research Group, ETH Zürich • Learn digital and physical form-finding methods, 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 Program 2018, 2020 2017 - 2018 Architectural Modeling, Laser Cutting, 3D NTU Civil Engineering Student Association Printing, CNC, Zund, Composite Material Vice President, Department Journal Co-editor **Digital Tools Photographer** • Rhinoceros 3D, Grasshopper, KUKA prc, ETABS, NTU Japanese Language and Literature Karamba3D, AutoCAD, Blender, Fusion 360, Annual / Graduation Performance 2017, 2018 Houdini, Vray | Photoshop, Illustrator, Lightroom, NTU Art Festival 2018 InDesign, Figma | Java, Python, Pandas, Arduino, NTU College of Bio-Resources & Agriculture Prom 2016

Processing, P5.js, HTML, CSS