

(734) 596-7108  
Ann Arbor, MI 48105  
daniegao@umich.edu

# Curriculum Vitae/Resume

## Jutang Gao

University of Michigan  
Taubman College  
<https://www.jutang.directory/>

### EDUCATION

<b>Master of Science - Digital and Material Technologies</b> , University of Michigan, Ann Arbor <i>with Scholarship and Master of Science Fellowship</i>	Aug/2023 - Dec/2024
<b>Applied Data Science Program: Leveraging AI for Effective Decision-Making</b> , MIT Professional Education	Oct/2023 - Dec/2023
<b>Master of Architecture</b> , University of Michigan, Ann Arbor	Aug/2020 - Apr/2023
<b>Bachelor of Architecture</b> , Southeast University, Nanjing	Aug/2015 - Jun/2020

### RESEARCH + DESIGN

#### Research:

Research Paper, Accepted by ACADIA 2024: *Vertical Wetland: Robotic 3D Printing of Urban Vertical Green Systems for Biodiversity* 2024

Research Paper, Ongoing: *DFS-Based Continuous Toolpath Generation and Printing of Complex Single-Wall 3D Objects* 2024

Independent Research, Unpublished: *Toward Multi-Functional Building Skins: A Systematic Overview of Multi-Material 3D Printing Technologies and Applications* 2023

Independent Research, Unpublished: *Exploration of Methodology: Assessing Urban Resilience Toward Infectious Public Health Emergency Based on 2SFCA and Unsupervised Spatial Clustering* 2022

#### Research + Design:

Computational Design and Research, Course Work: *3D Graphic Statics - Funicular Floors* 2023

Ceramic Assemblies, Course Work: *Sunleaf Facade System* 2023

Thesis, Midjourney Experiments + Utilizing Machine Learning Model in Housing Plan Generation: *In | Between Frontiers - Habitizing the Border Through AI* 2023

Fabrication Experiments, Advanced Robotics, Large Scale 3D Printing: *Exploring the Potential of 8-axis 3D Printing Using Super Matter Tools* 2023

High-Performance Building Design, Design Evaluation: *O<sup>2</sup> Houses* 2022

### WORK EXPERIENCE

**DMT Fellowship Research Assistant** Sept/2023 - Ongoing  
*Wes Mcgee, Taubman Fabrication Laboratory* Ann Arbor, US

- Robotic 3D-printing, Extrusion Control, Path Planning, Data Collection and Analysis

**Fabrication Lab Assistant** May/2023 - Ongoing  
*Taubman Fabrication Laboratory* Ann Arbor, US

- CNC-Router, Waterjet, 3D-Printing, Kuka robot, Tool developing

**Student Research Volunteer** Dec/2022 - May/2023  
*AR2IL* Ann Arbor, US

- Data cleaning, Literature searching

**Architectural Internship** Apr/2022 - Jul/2022  
*ECADI* Shanghai, China

- IHG Hotel, Ordos City, Design Development

(734) 596-7108  
Ann Arbor, MI 48105  
daniegao@umich.edu

# Curriculum Vitae/Resume

## Jutang Gao

University of Michigan  
Taubman College  
<https://www.jutang.directory/>

---

### Architectural Internship

*HKS Architects*

- Wuxi Sensor Park, Office, Competition
- Changhong Headquarters, Office, Competition

**Jan/2022 - Mar/2022**

*Shanghai, China*

### Architectural Internship

*SHL Architects (Perkins and Will)*

- Apartments at Huairou Science City, Housing, Design Development
- NIO Park, Service Center, Interior Design
- Pheonix Park, Office, Competition

**Jun/2021 - Dec/2021**

*Shanghai, China*

### Architectural Internship

*ECADI*

- Construction Document

**Jul/2019 - Sept/2019**

*Shanghai, China*

---

## SKILLS

### Tools and Languages

Google Colab, Midjourney, Python,  $\LaTeX$ , Zotero,  
Beckhoff TwinCAT, C Sharp, Microsoft Visual Studio

### Quantitative Research

MATLAB, Simulink

### Digital Fabrication

CNC machining, 3D-printing, Large Scale 3D-printing, Laser cutting, Zund  
Kuka|prc, Super Matter Tool, Mastercam

### Design Toolkit

Rhino with Grasshopper + python, Vectorworks, Revit,  
Sketchup, Enscape, Adobe Creative Suite, AutoCAD

### Communication

English, Mandarin (fluent speaker), Chinese (reading and writing)