

## Fang (Frank) Sun

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## EDUCATION

### University of Virginia

Charlottesville, VA

Bachelor of Science, major in Architecture, minor in Computer Science

May 2023

- Teaching Assistant of *ARCH 1010: Lessons of the Lawn* (undergraduate level, 20 students) 2022.08 - 2022.12  
Led discussion sessions; provided feedback and grading on weekly assignments about architectural history
- Teaching Assistant of *PLAC 4010: Neighborhood Planning Studio* (graduate level, 16 students) 2021.09 – 2022.05  
Conducted weekly workshops on ArcGIS, Rhino and Illustrator skill development, organized meetings with architecture firms

## PROFESSIONAL EXPERIENCE IN ARCHITECTURE

### STUDIOS Architecture

Washington D.C.

Full-time Designer

2023.07 – now

- Modeled the existing 3-story parking garage in D.C. with Revit and designed 6 parametric ceiling options with Dynamo
- Assisted with interior rendering for Institute of International Finance with Enscape, created various furniture layouts and material choices in Revit for 50% Design Development (DD) presentation
- Working on model fixation for Bond Bread Redevelopment at Howard University under Design Development (DD) phase, concentrated on remodeling all staircases and podiums, redesigning two entries, conducting canopy and roof drain studies.

### STUDIOS Architecture

Washington D.C.

Design Intern

2022.12 – 2023.01

- Modeled physical building and site models with 3D printing and lasering cutting for two ongoing health institution projects
- Created 6 Grasshopper script tests to present the proof of concept of automatic plan generator and parking space formation

### Perkins&Will

Washington D.C.

Design Intern

2022.05 - 2022.08

- Benchmarked UVA Gilmer Hall and Chemistry Building Renovation projects and created Revit templates
- Designed the loading dock and entrance for Omega Building in Rockville and rendered images with Photoshop and Enscape
- Proposed 8 logo-inspired iterations of parametric shelf for Perkins&Will DC office with Rhino, Grasshopper, and Dynamo

### HDR Inc.

Arlington, VA

Design Intern

2021.12 - 2022.01

- Drew analysis diagrams and recreated unit models for a children's hospital with AutoCAD, Rhino, Revit, and Photoshop
- Designed 10 parametric façade iterations for a Schematic Design project with Rhino, Grasshopper, Revit, and Dynamo
- Created 2 Grasshopper plugins (via Python) for employees to conveniently generate solids only using curves

### AZL Architects

Nanjing, China

Research Assistant

2021.01 – 2021.03

- Created 7 entrance designs for Lei House (a traditional Chinese townhouse) renovation project with Rhino and AutoCAD
- Refined rendered plans and sections for Ruralation Museum Hotel (a resort hotel) with AutoCAD, Photoshop, and Lumion
- Digitalized the hand drawings of sections and plans of a 2011 project (CIPEA No.4 House) with AutoCAD

### MAD Architects

Beijing, China

Design Intern

2020.07 - 2020.12

- Helped develop the circulation plan & created sections and rendered images for 2 floors of Jiaxing Civic Center
- Produced rendered drawings of the public courtyard and urban context and proposed 3 iterations for Pingtan Art Museum
- Improved the UI design of the firm's website (<http://www.i-mad.com>)

### Roboticsplus.AI (Shanghai) Co., Ltd

Shanghai, China

Project Assistant

2020.05 - 2020.08

- Programmed robotic arm movements for intelligent construction and assisted in developing CNC routers with C++ and Java
- Designed outdoor installations for the Jindi Office Building project and formulated models for 3D printing

### Tongji Architectural Design (Group) Co., Ltd.

Shanghai, China

Design Intern

2020.02 - 2020.05

- Helped develop the ground space of Pinghe School in Suzhou and drew building plans and sections to present to the clients
- Drew processing diagrams with AutoCAD; helped design external façades of Tongji University Creative Research Institute

## OTHER EXPERIENCES

### Alibaba Group Holding Limited

Java Developer Intern

Hangzhou, China

2021.06 – 2021.09

- Co-established the online Internet of Things (IoT) system for Xi'niu's On-demand Production Factory
- Co-developed an automated customer management system for Xi'niu Factory to improve efficiency
- Reprogrammed label printers and embroidery machines with Java and ZPL to allow remote operations

### Beijing ByteDance Technology Co., Ltd

Lark Frontend Technical Services

Shanghai, China

2021.03 – 2021.06

- Provided debug and customization services for users of Lark Open Platform (workplace apps developer)
- Fixed Lark interface compatibility issues and reviewed a part of Lark 4.0 updates before it went online
- Co-initiated Lark Knowledge Base and used Java & Python to encode and categorize previous solutions

### Hummer Education

Founder & CEO

Shanghai, China

2019.04 – Now

- Produced and published 300+ tutorial videos on YouTube, TikTok, and Bilibili (more than 300,000 subscribers in total)
- Expanded the company's target customers from children to chess lovers of all ages
- Devised chess-playing website and WeChat mini-program with Node.js and React

### APPLE Inc.

System Test Design Lead

Shanghai, China

2017.04 - 2018.10

- Debugged 20 issues in macOS 10.14, including 3 severe security alerts with privacy and message missing
- Collected and provided feedback on the user experience of the iOS 11 Application Program Interface

### Aparkers (Smart Parking Development)

Initiator & Leader

Shanghai, China

2016.10 - 2018.03

- Led a team of 8 to identify the causes of parking problems in Shanghai
- Crafted a smart parking plan and visualized the parking space design with Rhino and BIM
- Developed and installed signal detection devices in existing parking lots to shorten waiting time
- Created an app providing parking guidance and promoted it in AppStore and Google Play
- Received the patent (**201721325329.0**); the project was acquired by ETCP, a leading company in intelligent parking.

## Publications

- Sun, F. (2022). Zhouzhuang, Suzhou: The Change of Residential Space in Jiangnan Water Ancient Towns due to the Continuously Rising Commercialization. *Journal of Planning Education and Research*. (in press)
- Sun, F. (2022). "Metabolism Tragedy" – The Deconstruction of Nakagin Tower. *Journal of Architectural Education*. (under peer review)
- Sun, F. (2022). How to Modify the Time of Yellow Traffic Lights in order to Improve Traffic Efficiency? *International Journal of Mathematics*. (submitted)

## Fellowship & Awards

- 2022 Erwin-Ramsey Fellowship (awarded to 1 undergraduate student at UVA School of Architecture each year)
- 2022 Perkins&Will Summer Internship Design Competition, 2nd Prize
- 2022 Yongxin Gucheng Bridge Design Competition, Honorable Mention
- 2021 Competition to Renovate Historical Buildings in Nanjing, 2nd Prize

## Certificate & License

- LEED AP Building Design + Construction (LEED AP BD+C)
- National Council of Architectural Registration Boards (NCARB)

## Skills

**Visualization Software:** Photoshop, Illustrator, InDesign, V-ray, Lumion, Enscape, Keyshot

**Drafting and Modeling Software:** Rhinoceros, Grasshopper, Sketchup, AutoCAD, Revit, BIM, ArcGIS

**Prototyping Tools:** 3-D Printing, Laser Cutting, CNC Printing, Wood/Bamboo cutting

**Programming Languages:** Java, Python, MATLAB, HTML

**Interests:** chess (National Master), tennis, Rubik's cube, biking, photography, drawing