



## Shuang "Sue" Liu

Associate

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Sue assists in prosecuting patents within Marshall Gerstein's Electrical & Computer Technologies Group by performing legal research and drafting responses to Office Actions. Sue is fluent in Mandarin (Chinese) and frequently translates patent applications and office actions involving Chinese practice. She also has experience in patent prosecution practice involving complex technologies. In graduate school, she did numerous technical projects such as Analog Integrated Circuit design, VLSI design, and solving problems with Machine Learning techniques. She is proficient in the programming languages of C/C++, Python, MatLab, R, and Verilog/SystemVerilog.

### Practices

- Patent Prosecution

### Industries

- Electrical & Computer Technologies

### Representative Experience

Sue's technological experience includes:

- Artificial Intelligence
- Chemical synthesis
- Computer software
- Digital communication
- Electronics
- LTE and 5G communication
- Optics
- User interface

### Background and Credentials

Sue obtained her J.D. from the University of Minnesota Law School in addition to her M.S. in electrical and computer engineering. She obtained her B. Eng. in macromolecular materials and engineering from Zhejiang University. She previously served as a Patent Engineer and Patent Intern for intellectual property law firms.

## Education

- University of Minnesota Law School (J.D.)
- University of Minnesota (M.S.)
  - Electrical and Computer Engineering
- Zhejiang University (B. Eng.)
  - Macromolecular Materials and Engineering

## Bar Admissions

- U.S. Patent and Trademark Office (Limited Recognition)
- Illinois

## Publications and Presentations

- Shuang Liu, *A Helper for Patenting the “Unpredictable”: Artificial Intelligence*, 23 MINN. J.L. SCI. & TECH. 671 (2022).
- Shuang Liu, *Quantum Computing: Ready To Be Patented!*, LAWSCI FORUM (Nov. 2021).