WILSON SONSINI

Shuaimin Liu

LAW CLERK

Patents and Innovations

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FOCUS AREAS

Intellectual Property

Life Sciences

Patents and Innovations

EXPERIENCE

Shuaimin Liu is a law clerk who has been granted limited recognition to practice in patent matters before the U.S. Patent and Trademark Office under 37 CFR § 11.9(b). She is located in the New York office of Wilson Sonsini Goodrich & Rosati, where she is a member of the firm's patents and innovations practice. She has particular experience preparing and prosecuting patent applications relating to computer architecture, robotics, machine learning, computer vision, autonomous vehicles, network devices, and related technologies.

During her doctoral studies, Shuaimin developed algorithms for image processing and pattern recognition. While attending graduate school, she designed and created a novel interventional robotic device for minimally invasive surgery.

A native of Beijing, China, Shuaimin is fluent in English and Mandarin.

Shuaimin is not admitted in any jurisdiction and therefore not yet authorized to practice law.

CREDENTIALS

Education

- J.D., Fordham University School of Law
- Ph.D., Mechanical Engineering, Columbia University, 2016
- M.S., Mechanical Engineering, Columbia University, 2010
  Specialization in Robotics
- B.Eng., Precision Instrument and Mechanology, Tsinghua University, Beijing, 2009
  Minor in Sensors and Optical Systems

Admissions

- U.S. Patent and Trademark Office (Limited recognition to practice under 37 CFR § 11.9(b))
- Not yet admitted to practice in any jurisdiction

INSIGHTS

Select Publications

- Co-author, "EGFR and HER2 Activate Rigidity Sensing Only on Rigid Matrices," *Nature Materials*, 2017
- Co-author with H. Wolfenson, G. Meacci, M.R. Stachowiak, T. Iskratsch, S. Ghassemi, P. Roca-Cusachs, B. O'Shaughnessy, J. Hone, and M.P. Sheetz, "Tropomyosin controls sarcomere-like contractions for rigidity sensing and suppressing growth on soft matrices," *Nature Cell Biology*, 2015
- Co-author with T. Iskratsch, C.H. Yu, A. Mathur, V. Stévenin, J. Dwyer, J. Hone, E. Ehler, and M. Sheetz, "FHOD1 is needed for directed forces and adhesion maturation during cell spreading and

migration," 27(5) *Developmental Cell* 545-59, 2013

- Co-author with S. Ghassemi, G. Meacci, A. Gondarenko, A. Mathur, P. Roca-Cusachs, M.P. Sheetz, and J.Hone, "Cells test substrate rigidity by local contractions on sub-micrometer pillars," 109(14) *Proceedings of the National Academy of Sciences* 5328-33, 2012