



Shihong Li, Ph.D.

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Overview

Shihong Li, Ph.D., focuses his practice on patent prosecution support in the fields of mechanical engineering and electrical and computer technology.

Shihong is an expert in the theoretical and computational analysis of advanced structural materials, e.g., soft matters, granular materials, and lattice materials. In addition, he has extensive experience in computer-aided design, from consumer electronics to engineering structures.

In addition, Shihong is good at computer programming, e.g., C++, Python, and Fortran. While pursuing his M.S. degree in applied mathematics, Shihong concentrated in fields such as numerical analysis of partial differential equations, statistical modeling, machine learning techniques (e.g., discriminative and generative modeling), and computer visions. In his free time, Shihong enjoys hitting the slopes with a pair of skis.

Additional insights

Publications

- Li, S., & Henann, D. "Nonlocal continuum modeling of dense granular flow in a split-bottom cell with a vane-shaped intruder," *Phys. Rev. E*(2020)
- Li, S., & Henann, D. "Material stability and instability in non-local continuum models for dense granular materials," *Journal of Fluid Mechanics*(2020)

Services

Patent

Industries

Electrical & Computer Technology

Life Sciences

Medical Devices

Transportation, Aerospace & Defense

Manufacturing

Autonomous Vehicles

Admissions

U.S. Patent and Trademark Office (Limited)

Languages

English

Mandarin Chinese

Cantonese Chinese

Education

Ph.D., Mechanics of Solids, Brown University (2020)

M.S., Applied Mathematics, Brown University (2019)

B.S., Engineering Mechanics, Shanghai Jiao Tong University (2014)