Xuan LI

✉ xuan.shayne.li@gmail.com   📱 +1 (267) 721 0876
🌐 https://xuan-li.github.io   ⭘ https://github.com/xuan-li

EDUCATION

University of California, Los Angeles   **Los Angeles, California**
Ph.D. (In Pursuit), Applied Mathematics   *Sept 2021 - Present*

State University of New York at Stony Brook   **Stony Brook, New York**
M.S., Computer Science   *Aug 2017 - May 2020*

Tsinghua University   **Beijing, China**
B.S., Mathematical Sciences   *Aug 2013 - July 2017*

RESEARCH INTEREST

Numerical Simulation, High-Performance Computing, Geometry Processing, Machine Learning

PUBLICATION

Xuan Li, Minchen Li, and Chenfanfu Jiang.
Energetically Consistent Inelasticity for Optimization Time Integration.
ACM Transactions On Graphics (SIGGRAPH) 2022.

Xuan Li*, Yu Fang* (Equally contributed), Minchen Li, and Chenfanfu Jiang.
BFEMP: Interpenetration-Free MPM-FEM Coupling with Barrier Contact.
Computer Methods in Applied Mechanics and Engineering (CMAME) 2021.

Xuan Li*, Jessica McWilliams* (Equally contributed), Minchen Li, Cynthia Sung, and Chenfanfu Jiang.
Soft Hybrid Aerial Vehicle via Bistable Mechanism.
International Conference on Robotics and Automation (ICRA) 2021.
★ **Best Paper Award in Mechanisms and Design** ★

Yue Li*, **Xuan Li***, Minchen Li* (Equally contributed), Yixin Zhu, Bo Zhu, and Chenfanfu Jiang.
Lagrangian-Eulerian Multi-Density Topology Optimization with the Material Point Method.
International Journal for Numerical Methods in Engineering (IJNME) 2021.

Hui Zhao, **Xuan Li**, Wencheng Wang, Xiaoling Wang, Shaodong Wang, Na Lei, and Xiangfeng Gu.
Polycube Shape Space.
Pacific Graphics (PG) 2019.

Hui Zhao, **Xuan Li**, Huabin Ge, Na Lei, Min Zhang, Xiaoling Wang, and Xianfeng Gu.
Conformal mesh parameterization using discrete Calabi flow.
Geometric Modeling and Processing (GMP) 2018.

Hui Zhao, Na Lei, **Xuan Li**, Peng Zeng, Ke Xu, Xianfeng Gu.
Robust Edge-Preserved Surface Mesh Polycube Deformation.
Short Papers of Pacific Graphics (PG) 2017.

RESEARCH EXPERIENCE

University of California, Los Angeles   **Los Angeles, California**
Research Assistant (Supervisor: Dr. Chenfanfu Jiang)   *May 2021 – Present*

University of Pennsylvania   **Philadelphia, Pennsylvania**
Research Assistant (Supervisor: Dr. Chenfanfu Jiang)   *Sep 2019 – May 2021*

Adobe Research   **San Jose, California**
Deep Learning Research Intern (Mentor: Dr. Zhaowen Wang)   *May 2019 – Nov 2019*

State University of New York at Stony Brook   **Stony Brook, New York**
Research Assistant (Advisor: Dr. Xianfeng Gu)   *May 2018 - May 2019*

TEACHING EXPERIENCE

University of Pennsylvania
TA of CIS 563: Physically Based Animation - Fall 2020

State University of New York at Stony Brook
TA of CSE 215: Foundations of Computer Science (Discrete Mathematics) - Spring 2018
TA of CSE 303: Introduction to the Theory of Computation - Fall 2017