Xuan LI

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https://xuan-li.github.io https://github.com/xuan-li

EDUCATION

University of Pennsylvania **Philadelphia, U.S.**
Ph.D., Computer and Information Science *In progress*

State University of New York at Stony Brook **New York, U.S.**
M.S., Computer Science, *May 2020*
Chairman's Fellowship. GPA 3.92/4.0.

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

RESEARCH INTEREST

Physics-based Simulation, Geometry Processing

PUBLICATION

Yue Li*, Xuan Li*, Minchen Li* (*Equal contributions), Yixin Zhu, Bo Zhu, and Chenfanfu Jiang.
A Hybrid Lagrangian-Eulerian Method for Topology Optimization.
In submission. 2020.

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.

RESEARCH EXPERIENCE

University of Pennsylvania **Philadelphia, Pennsylvania**
Visiting Student (Supervisor: Dr. Chenfanfu Jiang) *July 2019 – May 2020*

Conduct research on Hybrid Lagrangian-Eulerian Topology Optimization.
Use deformable particles to represent material. First topology optimization using MPM.

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

Conduct research on Generative Model of Vector-format Fonts.
Use differentiable rasterizer to improve generation qualities.
Patent Submitted.

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

Surface Parameterizations, Polycube Maps, Surface Foliations, 3D Face Tracking.

Tsinghua University **Beijing, China**
Undergraduate Thesis (Advisor: Dr. Xianfeng Gu, Dr. Zhenbo Wang) *Spring 2017*

Infinitesimal Rigidity of Polyhedra.
Turn the theory into codes to visualize bases of nontrivial infinitesimal motion spaces.