LEYI ZHU

Office 520, 60 Fifth Ave, New York, NY
leyi@nyu.edu, 646-359-3420

EDUCATION

New York University *September 2019 - May 2025(expected)*
Ph.D. in Computer Science, specializing in Computer Graphics
Courant Institute of Mathematical Sciences

University of Science and Technologyh of China (USTC) *September 2015 - July 2019*
B.S. in Computational Mathematics ranking: 1/46
Minor in Computer Science
Special Class for the Gifted Young

PUBLICATIONS

Which Cross Fields can be Quadrangulated?
Global Parameterization from Prescribed Holonomy Signatures
H. Shen, L. Zhu, R. Capouellez, D. Panozzo, M. Campen, D. Zorin
ACM Transaction on Graphics (SIGGRAPH), 2022

Efficient and Robust Discrete Conformal Equivalence with Boundary
M. Campen, R. Capouellez, H. Shen, L. Zhu, D. Panozzo, D. Zorin
ACM Transaction on Graphics (SIGGRAPH Asia), 2021

Simulation and visualization of ductile fracture with the material point method
S. Wang, M. Ding, T. Gast, L. Zhu, S. Gagniere, C. Jiang, J. Teran
ACM SIGGRAPH / Eurographics Symposium on Computer Animation (SCA), 2019
SCA 2019 Best Paper Award

Vehicle Re-Identification by Deep Feature Fusion Based on Joint Bayesian Criterion
S. Li, M. Pei, L. Zhu
International Conference on Pattern Recognition (ICPR). IEEE, 2018.

INTERNSHIPS

Pixel Lab, Tencent America June. 2022 Aug. 2022
Graphics Research Intern

- Developed and implemented a novel approach for optimizing mesh connectivity, utilizing a distortion measure as guidance for modifications, ensuring adherence to user-defined constraints.
- Introduced a sophisticated mapping system that facilitates the transfer of critical quantities across different connectivities, achieving simultaneous optimization of both mesh connectivity and geometry relative to the distortion measure.

SELECTED HONORS

New York University MacCracken Fellowship 2019 -
USTC National Scholarship 2016, 2018
USTC Huawei Scholarship 2017

SKILLS

Programming Languages C/C++, Python, MATLAB, Shell Programming
Software & Tools Mathematica, Houdini, Rhino, ParaView, LaTeX