EDUCATION

ETH Zurich	Zurich, Switzerland
• Dr.sc. in Computer Science	Sep. 2020 - Apr. 2025
Thesis: Efficient Computational Models for Forward and Inverse Elasticity Problem	is
University of Pennsylvania	Philadelphia, USA
• M.S.E in Computer Graphics and Game Technology; GPA: 3.9/4.0	Aug. 2018 - Dec. 2019
Thesis: Hybrid Lagrangian-Eulerian Topology Optimization	
Beijing University of Technology	Beijing, China
B.S.E in Software Engineering; GPA: 3.8/4.0 (Ranking 1/62)	Sep. 2014 – Jun. 2018
Work Experience	
Apple	Zurich, Switzerland
Research Scientist at the Zurich Vision Lab	May. 2025 - Present
Research Internships	
Meta Reality Labs	Sausalito, U.S.A
Research Scientist Intern, Supervisor Dr. Hsiao-yu Chen, and Dr. Ladislav Kavan	Sep. 2024 - Jan. 2025
Apple	Zurich, Switzerland
Machine Learning Intern at the Zurich Vision Lab, Supervisor: Dr. Sebastian Martin	May 2024 - Sep. 2024
Max Planck Institute for Informatics	Saarbruecken, Germany
Visiting Scholar, Supervisor: Prof. Christian Theobalt and Dr. Thabo Beeler	Mar. 2020 - Aug. 2020
Disney Research	Glendale, U.S.A.
Research Intern, Supervisor: Prof. Kenny Mitchell	May. 2019 - Aug. 2019
Edinburgh Napier University	Remote
Research Intern, Supervisor: Prof. Kenny Mitchell	Jun. 2018 - Sep. 2018
Megvii Inc.(Face++)	Beijing, China
Research Intern, Supervisor: Dr. Liqian Ma and Haoqiang Fan	Jul. 2017 - May 2018

PUBLICATIONS

Yue Li, Gene Wei-Chin Lin, Egor Larionov, Aljaz Bozic, Doug Roble, Ladislav Kavan, Stelian Coros, and Bernhard Thomaszewski, Tuur Stuyck, Hsiao-yu Chen. Self-supervised Learning of Latent Space Dynamics *Proc. ACM Comput. Graph. Interact. Tech.* 8(4), 2025.

Yinwei Du, **Yue Li**, Stelian Coros, and Bernhard Thomaszewski. Robust and Artefact-Free Deformable Contact with Smooth Surface Representations. *Computer graphics forum 43 (8), 2024.*

Yue Li, Logan Numerow, Bernhard Thomaszewski, and Stelian Coros. Differentiable Geodesic Distance for Intrinsic Minimization on Triangle Meshes. ACM Transactions on Graphics (TOG) 43, no. 4 (2024): 1-14.

Logan Numerow, **Yue Li**, Stelian Coros, and Bernhard Thomaszewski. Differentiable Voronoi Diagrams for Simulation of Cell-Based Mechanical Systems *ACM Transactions on Graphics (TOG) 43, no. 4 (2024): 1-11.*

Yue Li, Stelian Coros, and Bernhard Thomaszewski. Neural Metamaterial Networks for Nonlinear Material Design. *ACM Transactions on Graphics (TOG) 42, no. 6 (2023): 1-13.*

Fabian Haller, **Yue Li**, Stelian Coros, and Bernhard Thomaszewski. Graph Neural Networks with Directional Encodings for Anisotropic Elasticity 2023.

Yue Li, Juan Montes, Bernhard Thomaszewski, and Stelian Coros. Programmable Digital Weaves. *IEEE Robotics and Automation Letters (RAL)*, 2022.

Jonas Zehnder, **Yue Li**, Stelian Coros, and Bernhard Thomaszewski. NTopo: Mesh-free Topology Optimization using Implicit Neural Representations. *Advances in Neural Information Processing Systems (Neurips)*, 34, 2021.

Yue Li, Marc Habermann, Bernhard Thomaszewski, Stelian Coros, Thabo Beeler, and Christian Theobalt. Deep Physics-aware Inference of Cloth Deformation for Monocular Human Performance Capture. In 2021 International Conference on 3D Vision (3DV) (pp. 373-384). IEEE.

Yue Li*, Xuan Li*, Minchen Li*, Yixin Zhu, Bo Zhu, and Chenfanfu Jiang. Lagrangian—Eulerian multidensity topology optimization with the material point method. *Int J Numer Methods Eng. 2021; 1–25.* (* joint first authors)

Llogari Casas, **Yue Li**, and Kenny Mitchell. "FaceMagic: Real-time Facial Detail Effects on Mobile." *In SIGGRAPH Asia 2020 Technical Communications*, pp. 1-4. 2020.

Yue Li, Liqian Ma, Haoqiang Fan, and Kenny Mitchell. "Feature-preserving detailed 3d face reconstruction from a single image." In *Proceedings of the 15th ACM SIGGRAPH European Conference on Visual Media Production, pp. 1-9. 2018.* (Best Paper Award)

Yue Li, Pablo Wiedemann, and Kenny Mitchell. "Deep Precomputed Radiance Transfer for Deformable Objects." Proceedings of the ACM on Computer Graphics and Interactive Techniques 2, no. 1 (2019): 1-16.

Yanlong Tang, Xiaoguang Han, **Yue Li**, Liqian Ma, and Ruofeng Tong. "Expressive facial style transfer for personalized memes mimic." *The Visual Computer 35, no. 6 (2019): 783-795.*

PATENTS

Kenny Mitchell, Llogari Casas, and **Yue Li**, "Real-time feature preserving rendering of visual effects on an image of a face", US11288859B2.

INVITED TALKS

Efficient Computational Models for Forward and Inverse Elasticity Problems. National University of Singapore (NUS). Host: Prof. Fan Shi. March 24th, 2025

Efficient Computational Models for Forward and Inverse Elasticity Problems. Institute of Science and Technology Austria (ISTA). Computer Graphics Seminar. Host: Prof. Chris Wojtan. April 10th, 2025

ACADEMIC SERVICE

• Reviewer

ACM Transactions on Graphics 2024,

ACM SIGGRAPH 2023-2025,

ACM SIGGRAPH Asia 2023-2025,

Eurographics 2024,

IEEE Transactions on Visualization and Computer Graphics 2024,

Symposium on Computational Fabrication 2021

• Teaching Assitant

Physics-based Animation *UPenn 2019*,

Visual Computing ETH Zurich 2020-2021,

Computational Models of Motion ETH Zurich 2021-2022,

Physically-Based Simulation in Computer Graphics ETH Zurich 2022-2023,

Introduction to Machine Learning, ETH Zurich 2024,

STUDENT SUPERVISION

• Master Theses at ETH

- Mr. Logan Numeral, thesis: Implicit Foam Modelling Using Generalized Voronoi Diagrams. (ETH Medal)
- Mr. Christoph Amveror, thesis: A Differentiable Model of Cell Intercalation.
- Mr. Fabian Haller, thesis: Graph Neural Networks with Directional Encodings for Anisotropic Elasticity.