

## EDUCATION

- ETH Zurich**  
 • *Dr.sc. in Computer Science*  
*Thesis: Efficient Computational Models for Forward and Inverse Elasticity Problems*

Zurich, Switzerland  
*Sep. 2020 - Apr. 2025*
- University of Pennsylvania**  
 • *M.S.E in Computer Graphics and Game Technology; GPA: 3.9/4.0*  
*Thesis: Hybrid Lagrangian-Eulerian Topology Optimization*

Philadelphia, USA  
*Aug. 2018 - Dec. 2019*
- Beijing University of Technology**  
 • *B.S.E in Software Engineering; GPA: 3.8/4.0 (Ranking 1/62)*

Beijing, China  
*Sep. 2014 - Jun. 2018*

## RESEARCH INTERNSHIPS

- Meta Reality Labs**  
 • *Research Scientist Intern, Supervisor Dr. Hsiao-yu Chen, and Dr. Ladislav Kavan*

Sausalito, U.S.A  
*Sep. 2024 - Jan. 2025*
- Apple**  
 • *Machine Learning Intern at the Zurich Vision Lab, Supervisor: Dr. Sebastian Martin*

Zurich, Switzerland  
*May 2024 - Sep. 2024*
- Max Planck Institute for Informatics**  
 • *Visiting Scholar, Supervisor: Prof. Christian Theobalt and Dr. Thabo Beeler*

Saarbruecken, Germany  
*Mar. 2020 - Aug. 2020*
- Disney Research**  
 • *Research Intern, Supervisor: Prof. Kenny Mitchell*

Glendale, U.S.A.  
*May. 2019 - Aug. 2019*
- Edinburgh Napier University**  
 • *Research Intern, Supervisor: Prof. Kenny Mitchell*

Remote  
*Jun. 2018 - Sep. 2018*
- Megvii Inc.(Face++)**  
 • *Research Intern, Supervisor: Dr. Liqian Ma and Haoqiang Fan*

Beijing, China  
*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 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

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

## INVITED TALKS

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*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 Series. Host: Prof. Chris Wojtan. April 10th, 2025

## ACADEMIC SERVICE

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### • Reviewer

ACM Transactions on Graphics 2024,  
ACM SIGGRAPH 2023-2025,  
ACM SIGGRAPH Asia 2023-2024,  
Eurographics 2024,  
IEEE Transactions on Visualization and Computer Graphics 2024,  
Symposium on Computational Fabrication 2021

### • Teaching Assistant

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

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### • 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.