

EDUCATION

- **ETH Zurich** Zurich, Switzerland
Ph.D. in Computer Science Sep. 2020 - Dec. 2025 (expected)
- **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

PUBLICATIONS

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

Yue Li, Stelian Coros, and Bernhard Thomaszewski. Neural metamaterial networks for nonlinear material design. *ACM Transactions on Graphics (TOG)* 42, no. 6 (2023).

Yinwei Du, **Yue Li**, Stelian Coros, and Bernhard Thomaszewski. No free slide: Spurious contact forces in incremental potential contact. *arXiv preprint arXiv:2308.01696*, 2023.

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

RESEARCH EXPERIENCE

- **Max Planck Institute for Informatics** Saarbruecken, Germany
Visiting Scholar, Advisor: Prof. Christian Theobalt and Dr. Thabo Beeler Mar. 2020 - Aug. 2020
- **Disney Research** Glendale, U.S.A.
Research Intern, Advisor: Prof. Kenny Mitchell May. 2019 - Aug. 2019
- **Edinburgh Napier University** Remote
Research Intern, Advisor: Prof. Kenny Mitchell Jun. 2018 - Sep. 2018
- **Megvii Inc.(Face++)** Beijing, China
Research Intern, Leader: Dr. Liqian Ma, Mr. Haoqiang Fan Jul. 2017 - May 2018
- **Tsinghua University** Beijing, China
Research Assistant Nov. 2016 - Apr. 2017

TEACHING EXPERIENCE

- **CIS563 Physics-based Animation** UPenn Fall 2019 Teaching Assistant
- **Visual Computing** ETH Zurich Fall 2020, 2021, 2022 Teaching Assistant
- **Computational Models of Motion** ETH Zurich Spring 2021, 2022 Teaching Assistant
- **Physically-Based Simulation in Computer Graphics** ETH Zurich Fall, 2022 Teaching Assistant

ACADEMIC SERVICE

- **Reviewer** SIGGRAPH, SIGGRAPH Asia, Symposium on Computational Fabrication, Eurographics

STUDENT SUPERVISION

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

PROGRAMMING SKILLS

- **Languages:** C++, Python, Julia, Matlab