

YILING QIAO

ylqiao.netlify.app \diamond yilingq@umd.edu

EDUCATION

University of Maryland, College Park

Ph.D student in Computer Science

Aug 2019 - present

Academic Advisor: Prof. Ming C. Lin

University of Chinese Academy of Sciences

B.E. Computer Science and Technology

Sep 2015 - Jul 2019

Academic Advisor: Prof. Xilin Chen

B.S. Mathematics and Applied Mathematics (Double Major)

University of California, Los Angeles

Special student, Cross-disciplinary Scholars in Science and Technology (CSST)

Jul 2018 - Sep 2018

Carnegie Mellon University

Visiting student, School of Computer Science

Jan 2018 - May 2018

PUBLICATIONS

Efficient Differentiable Simulation of Articulated Bodies [PDF](#)

ICML 2021

Yi-Ling Qiao, Junbang Liang, Vladlen Koltun, Ming C. Lin

OF-VO: Efficient Navigation among Pedestrians Using Commodity Sensors [PDF](#)

ICRA/RAL 2021

Jing Liang, Yi-Ling Qiao, Tianrui Guan, Dinesh Manocha

Differentiable Fluids with Solid Coupling for Learning and Control [PDF](#)

AAAI 2021

Tetsuya Takahashi, Junbang Liang, Yi-Ling Qiao, Ming C. Lin

Scalable differentiable physics for learning and control [PDF](#)

ICML 2020

Yi-Ling Qiao, Junbang Liang, Vladlen Koltun, Ming C. Lin

Synthesizing Mesh Deformation Sequences with Bidirectional LSTM [PDF](#)

TVCG 2020

Yi-Ling Qiao, Yu-Kun Lai, Hongbo Fu, Lin Gao

Learning on 3D Meshes with Laplacian Encoding and Pooling [PDF](#)

TVCG 2020

Yi-Ling Qiao, Lin Gao, Jie Yang, Yu-Kun Lai, Xilin Chen

Uncertainty quantification for semi-supervised multilabel classification in image processing and ego-motion analysis from body worn cameras [PDF](#) **Electronic Imaging 2019**

Yi-Ling Qiao, Chang Shi, Chenjian Wang, Hao Li, Matthew Haberland, Andrew M. Stuart, Andrea Bertozzi

Automatic Unpaired Shape Deformation Transfer [PDF](#)

SIGGRAPH ASIA 2018

Lin Gao, Jie Yang, Yi-Ling Qiao, Yu-Kun Lai, Paul L. Rosin, Weiwe Xu, Shihong Xia

SF-Net: Learning Scene Flow from RGB-D Images with CNNs [PDF](#)

BMVC 2018

Yi-Ling Qiao, Lin Gao, Yukun Lai, Fang-Lue Zhang, Ming-Ze Yuan, Shihong Xia

EXPERIENCE

Research Intern

Facebook Reality Labs

May 2021 - Aug 2021

Mentor: Breannan Smith

- Research on the differentiable programming techniques in VR applications.

Research Intern

Intelligent Systems Lab, Intel

May 2020 - May 2021

Mentor: Vladlen Koltun

- Research on machine learning and physically-based simulation.

- Develop Open3D-ML <https://github.com/intel-isl/Open3D-ML>

Research Assistant

Department of Mathematics, UCLA

Mar 2018 - Sep 2018

Mentor: Andrea L. Bertozzi

- Research on graph-based semisupervised problems with uncertainty quantification.

Research Assistant

Institute of Computing Technology, Chinese Academy of Sciences

Oct 2016 - Jul 2019

Mentor: Lin Gao

- Research on geometry processing and computer vision.