YILING QIAO

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EDUCATION

University of Maryland, College Park — Aug 2019 - present
Ph.D student in Computer Science — Academic Advisor: Prof. Ming C. Lin

University of Chinese Academy of Sciences — Sep 2015 - Jul 2019
B.E. Computer Science and Technology — Academic Advisor: Prof. Xilin Chen
B.S. Mathematics and Applied Mathmatics (Double Major)

University of California, Los Angeles — Jul 2018 - Sep 2018
Special student, Cross-disciplinary Scholars in Science and Technology (CSST)

Carnegie Mellon University — Jan 2018 - May 2018
Visiting student, School of Computer Science

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 — May 2021 - Aug 2021
Facebook Reality Labs — *Mentor: Breannan Smith*

· Research on the differentiable programming techniques in VR applications.

Research Intern — May 2020 - May 2021
Intelligent Systems Lab, Intel — *Mentor: Vladlen Koltun*

· Research on machine learning and physically-based simulation.

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

Research Assistant Mar 2018 - Sep 2018
Department of Mathematics, UCLA *Mentor: Andrea L. Bertozzi*

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

Research Assistant Oct 2016 - Jul 2019
Institute of Computing Technology, Chinese Academy of Sciences *Mentor: Lin Gao*

· Research on geometry processing and computer vision.

REFERENCE

Dr. Vladlen Koltun (vladlen.koltun@gmail.com)
Dr. Ming Lin (lin@cs.umd.edu)
Dr. Dinesh Manocha (dm@cs.umd.edu)