

Yijia Weng

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EDUCATION

Peking University, Beijing, China

B.S., Computer Science, Turing Class

Sep 2017 – Jul 2021 (expected)

- GPA: 3.92 / 4.00, Ranking: 1st / 230
- Relevant Courses: Mathematical Analysis, Advanced Algebra, Discrete Math and Structures, Probability Theory and Statistics, Machine Learning, Data Structure and Algorithm, Algorithm Design and Analysis (all scored 3.90+ / 4.00).

PUBLICATIONS

- Kfir Aberman*, **Yijia Weng***, Dani Lischinski, Daniel Cohen-Or, Baoquan Chen. *Unpaired motion style transfer from video to animation*. Accepted by **ACM SIGGRAPH 2020**
- He Wang*, **Yijia Weng***, Qiang Zhou, Yuzhe Qin, Yueqi Duan, Qingnan Fan, Baoquan Chen, Hao Su, Leonidas Guibas. *CAPTRA: CAtegory-level Pose Tracking for Rigid and Articulated Objects from Point Clouds*. Preprint.

RESEARCH EXPERIENCE

Research Intern, advised by Prof. Leonidas Guibas,

Mar 2020 – Nov 2020

Geometric Computation Group, Stanford University

Project: Category-level Pose Tracking for Rigid and Articulated Objects

Collaborators: He Wang, Qiang Zhou, Yuzhe Qin, Yueqi Duan, Qingnan Fan, Baoquan Chen, Hao Su, Leonidas Guibas

- Proposed the first unified framework to tackle category-level object pose tracking for both rigid and articulated objects
- Built a pipeline that performs fast, end-to-end pose prediction directly optimized for pose accuracy by combining the strengths of coordinate based approach and direct regression
- Exploited the ease of geometric manipulation of 3D data and designed a novel pose canonicalization module
- Achieved the new state-of-the-art performance on both category-level rigid and articulated pose tracking benchmarks while being the fastest method

Research Intern, advised by Prof. Baoquan Chen,

Mar 2019 – Present

Visual Computing and Learning Lab, Peking University

Project: Unpaired Motion Style Transfer from Video to Animation

Collaborators: Kfir Aberman, Daniel Cohen-Or, Dani Lischinski, Baoquan Chen

- Proposed a novel data-driven framework for motion style transfer, which learns from an unpaired collection of motions with style labels, and enables transferring motion styles not observed during training
- Extracted motion styles directly from videos bypassing 3D reconstruction for the first time, extended the set of style examples far beyond motions captured by MoCap systems

AWARDS & HONORS

- National Scholarship (Top 2% in School), Peking University Sep 2019, Sep 2020
- Merit Student (Top 5% in School), Peking University Sep 2018, Sep 2019, Sep 2020
- Gold Medal, The 2019 ICPC Asia-East Continent Final Contest Dec 2019
- Gold Medal, The 2019 ICPC Asia Nanjing Regional Contest Oct 2019
- Schlumberger Scholarship, Peking University Sep 2018
- Dean's Scholarship for Freshmen, Peking University Sep 2017
- Gold Medal (Top 50 Nationwide), 33rd National Olympiad in Informatics Jul 2016

LANGUAGES & SKILLS

Foreign Languages: English (fluent), French (basic)

- TOEFL iBT: 116/120
- GRE: 340/340 + 4.0/6.0

Programming: C/C++, Python, PyTorch, TensorFlow, MATLAB, \LaTeX

ACTIVITIES

Vice President, English Debating Society, Peking University

Jan 2019 – Jul 2019

- Organized regional debate tournaments.
- Participated in nationwide debate tournaments, broke into quarter- and semi-finals.