YIHENG ZHANG

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SUMMARY

I'm an undergraduate student currently studying in Shanghai Jiao Tong University (SJTU) majoring in computer science and will achieve my Bachelor degree in Jun. 2019. Since Sept. 2015, I've been a member of Zhiyuan Honor Program of Engineering which belongs to Zhiyuan College (independent research-oriented college in SJTU).

My research interests basically lie in Computer Graphics and Vision. Most of my recent research is related to global illumination while a bunch of other topics remain attractive to me, including geometric modeling, texture simulation, scene reconstruction, 3-D vision and animation.

EDUCATION

B.S. in Computer Science and Engineering

September 2015 - June 2019 (Expect)

School of Electronic Information and Electrical Engineering

Shanghai Jiao Tong University, Shanghai, China Overall GPA: 90.87/100, Major GPA: 93.90/100

Zhiyuan Honor Program of Engineering(top 4%)

September 2015 - June 2019 (Expect)

Zhiyuan College

Shanghai Jiao Tong University, Shanghai, China

Honor Course GPA: 90.46/100

Exchange Undergraduate

June 2017 - July 2017

School of Engineering

University of Melbourne, Victoria, Australia

Course Grade: H1

RESEARCH EXPERIENCE

Lab of Digital Media and Data Reconstruction

February 2017 - Present

Shanghai Jiao Tong University, Shanghai, China

Advisor: Lizhuang Ma (Distinguished Professor)

Research Topic: global illumination, texture alignment and more CG related optimization

PUBLICATIONS

Light Transport Simulation via Generalized Multiple Importance Sampling

November 2018

Qi Liu, Yiheng Zhang, Lizhuang Ma - CVM 2018 Oral

· A generalized multiple importance sampling in global illumination

· Improved the efficiency of vertex connecting and merging algorithm by about 20%

SELECTED PROJECTS

Interactive Object Selection Based on U-Net

October 2017 - January 2018

Computer Graphics Course Group Project

- · Project ranked top 1%
- · An open-source interactive solution for object selection.
- · Increase accuracy by 15.91% on salient object compared with Deep Interactive Object Selection (CVPR 2016).

Simple Path Tracer November 2017

- · Scene built and core algorithm implemented by myself, mathematical utilities courtesy: SmallVCM
- · Reflection, refraction and Phong are included

HONORS

Meritorious Winner January 2017

MCM/ICM Mathematical Contest in Modeling

Zhiyuan Honor Scholarship December 2017

Zhiyuan College, Shanghai Jiao Tong University

Wish Scholarship (top 3%)
September 2017

Wish Ltd.

Zhiyuan Honor Scholarship December 2016

Zhiyuan College, Shanghai Jiao Tong University

Tung OOCL Scholarship Scholarship (top 6%)
October 2016

The Tung Foundation & Orient Overseas Container Line Ltd.

LANGUAGE & SKILLS

English Proficiency TOEFL score:113 (R:30, L:29, S:24, W:30)

Programming Language C/C++, Python, Matlab, LaTeX

Software Microsoft Office, Visio; Adobe Photoshop, Illustrator, Premiere

EXTRA-CIRRUCULAR

Vice Director of Department of Publicity

May 2016 - September 2017

Student Union of SEIEE

- · Responsible for publicity works of events held by SEIEE (School of Electronic Information and Electrical Engineering)
- · Hold monthly workshop to give presentation of new designing trend

President September 2017 - Present

SJTU Band Union

- · Head director of several campus rock shows
- · Assistant director of SJTU Oasis music festival
- · Contributed to a audio technology guidance website (on my github)

Hobbies

- · Guitarist/Composer on a metal band
- · Calligraphy grade 8 (max 10, China Calligrapher Association)
- · 9 year painting learning experience