ZHUOHAO ZHANG

Honors Class of Computer Science
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EDUCATION

Zhejiang University   Hangzhou, China
B.Eng. in Computer Science and Technology (**with Honors**)   Sept. 2015 – Jun. 2019

- GPA: 3.88/4.00, major GPA: 3.93/4.00 (ranked **top 5%** of 181 students)
- 3 Successive Years of **First-Class Scholarship**
- Cornell Tech, Visiting Scholar

PUBLICATIONS

1. **Zhuohao Zhang**, Xiyuan He*. **GPK: An Efficient Special Symbol Input Method for Keyboards Using Glide**. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI 2019), EA
2. Lei Shi, Holly M. Lawson, **Zhuohao Zhang**, Shiri Azenkot. **Designing interactive 3D printed models with Teachers of the Visually Impaired**. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI 2019)
3. Lei Shi, **Zhuohao Zhang**, Shiri Azenkot. **A Demo of Talkit++: Interacting with 3D Printed Models Using iOS Devices**. In Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18), demo

  * indicates equal contribution as first author.

RESEARCH EXPERIENCE & PROJECTS

Cornell University (Enhancing Ability Lab, Cornell Tech)   New York City, USA
Research Assistant to Prof. Shiri Azenkot   Oct. 2017 – Dec. 2018
Design Interactions for 3D Printed Models for Blind People

- Published demo and paper in **ASSETS'18** and **CHI'19**
- Designed interactive 3D tactile models and algorithms to recognize users' behavior when accessing information on physical models using computer vision-based methods
- Designed several workshops for teachers of the visually impaired and their students in special schools

Zhejiang University (CAD&CG State Key Lab)   Hangzhou, China
Research Assistant to Prof. Yingcai Wu, Director of Vis Group   Apr. 2017 – Apr. 2018
Augmented Reality-based Collaborative Visual Analytics System

- Registered as Provincial Undergraduate Training Program for Innovation and Entrepreneurship
- Applied the AR-based technology to enable collaborative visualization on massive urban data of housing
- Used space partition (Octree), clustering (DBSCAN) and edge bundling (KDEEB) techniques to process data points in 3D, and enabled immersive and scalable interactions for visual analytics

Zhejiang University (Dept. of Computer Science)   Hangzhou, China
Research Assistant to Prof. Qingsong Shi, Director of Architecture Lab   Sept. 2016 – Jun. 2018
CPU and Operating System Design from Scratch on Hardware

- Responsible for CPU design and hardware system design and optimization through 5 courses of 20 credits
- Designed Single-Cycle, Multi-Cycle, and Pipeline CPU, helped design a System-on-Chips
- Contributed to an operating system and some basic applications built from scratch on hardware

TALK

Tactile Graphics in Education and Career Symposium   Baltimore, USA
Presenter at National Federation of the Blind, Jernigan Institute   11th Oct. 2018 – 12th Oct. 2018

- Presented with Ph.D. candidate Lei Shi from Cornell University
- Title: Sensables: 3D Printed Models for Visually Impaired Students

TECHNICAL REPORT

1. Zhaoyuan Su, **Zhuohao Zhang**, Fan Lin, Zhou Yu. **WeCare: An Intelligent Tool Enhancing Storytelling Experience to Support Retired Elder's Mental Wellness**. Technical Report.

WORK EXPERIENCE

Zhejiang University, Dept. of Computer Science and Technology   Hangzhou, China
Teaching Assistant for the course *Introduction to Computer Systems*   Jul. 2017
- TA to Visiting Professor Yale Patt from UT-Austin, member of National Academy of Engineering, University Distinguished Teaching Professor
- Assisted teaching a summer course for ~200 freshmen from Zhejiang University and other fellow universities
- Reported to the professor and was responsible for reinforcing lessons by reviewing every class, grading tests and homework, and giving instructions on experiments, all in English

Zhejiang University, Dept. of Computer Science and Technology   Hangzhou, China
Teaching Assistant for several computer science courses on hardware   Sept. 2017 – Jun. 2018
- TA to Prof. Qingsong Shi for the course *Digital Logic Design and Computer Organization*
- Assisted in the teaching of project assignments

SELECTED AWARDS AND HONORS

- First-class Scholarship for Academic Excellence (top 3% in ~850 students)   2016
- The Outstanding Student Title (top 3% in ~850 students)   2016
- Zhejiang Provincial Government Scholarship   2016
- First-class Scholarship, awarded for excellent performance in basic subjects (top 5%)   2017&2018
- Second and Third-class Scholarship for Academic Excellence   2017&2018
- Microsoft Imagine Cup 2018, United States National Finals Attendee   2018

ADDITIONAL INFORMATION

Professional and Extracurricular Experiences
- Member of Student Association Union of Zhejiang University, Human Resources Dept.
- Operating Officer of Microsoft Student Club
- Manager of Technique Support Dept. in ZJU Yunfeng Career Planning Base

Interests
- 2 years of experience in designing public posters and advertisement banners
- 12 years of experience in Chinese Calligraphy, won 1st Prize of 1st National Calligraphy Competition

Computer and Language Skills
- iOS, AR/VR related frameworks, C/C++, Java, Python, JavaScript, HTML, CSS, D3.js, SQL
- AI-related (Machine Learning, Deep Learning) and optimization algorithms and tools
- TOEFL 107 (Speaking 26/30, Writing 30/30) IELTS 8.0 (Writing 8.0/9)