Zihan Zhu (Levi)

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EDUCATION

Zhejiang University — Hangzhou, Zhejiang Province, CHN

Bachelor of Engineering in Computer Science and Technology — *Sept. 2018 – present*

- Mixed Class, CHU KOCHEN Honors College
- **Relevant Coursework:**
  Computer Graphics(96/100), Numerical Analysis(98/100), Discrete Math(96/100)
- **Cumulative GPA: 92.02/100 3.99/4.00**
- **Rank: 3/269**
- **Awards:**
  {2019-2020, 2020-2021} Scholarship of Zhejiang Province
  {2019-2020, 2020-2021} Scholarship for Pilotage (CHU KOCHEN Honors College Outstanding Students Awards)
  ZJU Special Scholarship for {Innovation, Social Services, Academic Performance, Foreign Exchange}

Tianjin No.1 High School — Tianjin Municipal, CHN

Graduated with a total score of 680 (conditional offer requires: 554) — *Sept. 2015-Jul. 2018*

- Bronze Medal in National Olympiad in Informatics
- Silver Medal in Asia Pacific Informatics Olympiad

PROFESSIONAL EXPERIENCE

Research Intern — July. 2021 – Present

Computer Vision and Geometry Group, ETH Zurich | Advisor: Prof. Marc Pollefeys — *(remote) Zurich, CH*

- Build a SLAM system using implicit neural representation with scene priors

Undergraduate Research Assistant — Nov. 2019 – Present

State Key Lab of CAD&CG | Advisor: Prof. Weiwei Xu — *Hangzhou, Zhejiang Province, CHN*

- Develop Image-based rendering system allowing real-time free-viewpoint rendering of large indoor scenes with reflections using multiple views captured by consumer-level RGB camera.
- Explore research topics on neural rendering and view synthesis.

Student Summer Research Fellowship — July 2020 – Aug. 2020

The University of Chicago | Advisor: Prof. Junchen Jiang — *(remote) Chicago, IL, USA*

- Build a video analytic pipeline benchmark.
- Design efficient video analytic pipeline that saves bandwidth and edge computation.

PUBLICATIONS

Scalable Image-based Indoor Scene Rendering with Reflections — Aug. 2021

- Jiamin Xu, Xiuchao Wu, Zihan Zhu, Qixing Huang, Yin Yang, Hujun Bao, Weiwei Xu
- ACM Transactions on Graphics (TOG) 40 (4), 1-14 (**SIGGRAPH 2021**)

NICE-SLAM: Neural Implicit Scalable Encoding for SLAM — Dec. 2021

- Zihan Zhu*, Songyou Peng*, Viktor Larsson, Weiwei Xu, Hujun Bao, Zhaopeng Cui, Martin R. Oswald, Marc Pollefeys
- **CVPR 2022** Project page: pengsongyou.github.io/nice-slam

PERSONAL

- **Languages and Certification:** Mandarin (Native), English (TOEFL 106, GRE 331+4)

- **Technical Skills:** Python, Pytorch, C/C++, SQL (mysql), CUDA, MATLAB

- **Interest:** Swimming, Piano, Films