Kaifeng Zhang

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EDUCATION

University of Illinois Urbana-Champaign   Aug 2023 – Present
Ph.D. in Computer Science   *Advisor: Professor Yunzhu Li*

Tsinghua University   Sep 2019 – Jun 2023
B.Eng. in Computer Science, Institute for Interdisciplinary Information Sciences   *Magna Cum Laude (GPA: 3.93/4.0)*
- **Visiting Student Intern** at University of California, San Diego from Feb 2022 to Jul 2022

RESEARCH EXPERIENCE

University of Illinois Urbana-Champaign   Aug 2023 – Present
Graduate Research Assistant   *Advisor: Professor Yunzhu Li*
- Research focus: robot learning and embodied machine learning.

University of California, San Diego   Feb 2022 – Jul 2023
Undergraduate Research Assistant   *Advisor: Professor Xiaolong Wang*
- Research focus: self-supervised learning of 3D representations; category-level object 6D pose estimation; novel view synthesis and 3D content generation. One paper gets published at ICLR 2023.

Tsinghua Vision and Robotics Lab   Jun 2021 – Jan 2022
Undergraduate Research Assistant   *Advisor: Professor Yang Gao*
- Research focus: contrastive learning; visual correspondence learning; self-supervised label propagation and video object segmentation. One paper gets published at ECCV 2022.

PUBLICATIONS

Self-Supervised Geometric Correspondence for Category-Level 6D Object Pose Estimation in the Wild
Kaifeng Zhang, Yang Fu, Shubhankar Borse, Hong Cai, Fatih Porikli, Xiaolong Wang
in International Conference on Learning Representations (ICLR), 2023.
https://arxiv.org/abs/2210.07199 ; https://kywind.github.io/self-pose

Semantic-Aware Fine-Grained Correspondence
Yingdong Hu, Renhao Wang, **Kaifeng Zhang**, Yang Gao
in European Conference on Computer Vision (ECCV), 2022. (**Oral presentation**)
https://arxiv.org/abs/2207.10456

AWARDS & HONORS

Comprehensive Excellence Award, Institute for Interdisciplinary Information Sciences, Tsinghua University, 2022.
Comprehensive Excellence Award, Institute for Interdisciplinary Information Sciences, Tsinghua University, 2021.
Xuetang Talents Program Scholarship, Tsinghua University, 2020.
Second-class Freshmen Scholarship, Tsinghua University, 2019.
Silver Prize, the 35th Chinese Physics Olympiad, Chinese Physical Society, 2018.

PROJECTS

AI + Social Science for Agricultural Research
- A project which studies the development of integrated chicken-fish farming in Myanmar using field investigation data combined with deep learning on historical satellite imagery. In collaboration with Peking University.

Selected Course Projects
- Computer Vision (A+), Intelligent System and Robotics (A), Natural Language Processing (A), Deep Learning (A)

SKILLS

Programming and Development Tools: Python (PyTorch), C, C++; Linux, Git, Docker, Kubernetes, LaTeX, Blender