

# Tianyi Xie

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## EDUCATION

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<b>University of California, Los Angeles</b> <i>Ph.D. in Computer Science</i> Advisor: Prof. Chenfanfu Jiang and Prof. Demetri Terzopoulos	03/2023 - Present
<b>University of California, Los Angeles</b> <i>M.Sc. in Computer Science</i>	09/2021 - 03/2023
<b>Shanghai Jiao Tong University</b> <i>B.Eng. in Software Engineering</i>	09/2016 - 06/2020

## RESEARCH INTERESTS

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Physics-based Simulation, Machine Learning

## EXPERIENCES

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<b>Research Assistant</b> <i>MultiPILES Lab, University of California, Los Angeles</i> <ul style="list-style-type: none"><li>Advisor: Prof. Chenfanfu Jiang</li><li>Research Topic: Two-way coupled solid-fluid simulation</li></ul>	02/2022 – 12/2022
<b>Research Intern</b> <i>Bytedance AI Lab, Shanghai</i> <ul style="list-style-type: none"><li>Research Topic: GAN based audio-driven avatar generation</li></ul>	04/2020 – 07/2021
<b>Research Assistant</b> <i>The PIKE Group, The Pennsylvania State University</i> <ul style="list-style-type: none"><li>Advisor: Prof. Dongwon Lee</li><li>Research Topic: Clickbait thumbnail detection with weak supervision</li></ul>	07/2019 – 11/2019

## PUBLICATIONS

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### PhysGaussian: Physics-Integrated 3D Gaussians for Generative Dynamics

arXiv: 2311.12198

Tianyi Xie\*, Zeshun Zong\*, Yuxing Qiu\*, Xuan Li\* (equal contribution), Yutao Feng, Yin Yang, Chenfanfu Jiang

### A Contact Proxy Splitting Method for Lagrangian Solid-Fluid Coupling

ACM Transactions On Graphics (SIGGRAPH), 2023

Tianyi Xie, Minchen Li, Yin Yang, Chenfanfu Jiang

### Multi-Layer Thick Shells

ACM SIGGRAPH, 2023

Yunuo Chen, Tianyi Xie, Cem Yuksel, Danny Kaufman, Yin Yang, Chenfanfu Jiang, Minchen Li

### Towards Realistic Visual Dubbing with Heterogeneous Sources

ACM International Conference on Multimedia (ACM MM), 2021

Tianyi Xie, Liucheng Liao, Cheng Bi, Benlai Tang, Xiang Yin, Jianfei Yang, Mingjie Wang, Jiali Yao, Zejun Ma

### CHECKER: Detecting Clickbait Thumbnails with Weak Supervision and Co-teaching

European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), 2021

Tianyi Xie, Thai Le, Dongwon Lee

## SCHOLARSHIP & AWARDS

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- Tung OOCL Scholarship (top 10% in SJTU), 2019
- B-Class Academic Excellence Scholarship (top 10% in SJTU), 2017-2019
- Huawei Scholarship (top 10% in SJTU), 2018
- First Prize of the National College Students Physics Competition (Shanghai Zone), 2018
- Wish Scholarship (top 5% in SJTU), 2017
- SJTU Merit Student, 2017