Tianyi Xie

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EDUCATION

University of California, Los Angeles   **09/2021 - Present**
M.Sc. in Computer Science

Shanghai Jiao Tong University   **09/2016 - 06/2020**
B.Eng. in Software Engineering
- Thesis: Clickbait Thumbanil Identification and Detection

EXPERIENCES

Research Assistant   **02/2022 – Present**
MultiPILES Lab, University of California, Los Angeles
- Advisor: Prof. Chenfanfu Jiang
- Research Topic: Two-way coupled solid-fluid simulation

Research Intern   **03/2021 – 07/2021**
Bytedance AI Lab, Shanghai
- Research Topic: 3DMM model based avatar animation

Research Intern   **04/2020 – 11/2020**
Bytedance AI Lab, Shanghai
- Research Topic: GAN based audio-driven avatar generation

Research Assistant   **07/2019 – 11/2019**
The PIKE Group, The Pennsylvania State University
- Advisor: Prof. Dongwon Lee
- Research Topic: Clickbait thumbnail detection with weak supervision

PUBLICATIONS

Towards Realistic Visual Dubbing with Heterogeneous Sources
ACM International Conference on Multimedia (ACM MM), 2021 [paper]
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 [paper]
Tianyi Xie, Thai Le, Dongwon Lee

SELECTED PROJECTS

- **Compiler:** This project implements a compiler for Tiger (a language). This compiler supports float, integer, string, array, type, escape character function, and so on. Besides, it can work without the rbp register.
- **Yet Another File System:** This project builds a multi-server file system that enables multiple clients to write and read in a server. This system takes packet loss and concurrent requests into consideration and uses techniques such as mutex lock, sequence number and heartbeat mechanism to guarantee correctness and consistency.
- **JOS Operating System:** This project constructs an operating system, which supports virtual memory, kernel and user mode, system calls, threads, context switches, interrupts, interprocess communication, coordination of concurrent activities, and the interface between software and hardware.

SCHOLARSHIP & AWARDS

- 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