Curriculum Vitae **ZhuoLong/卓龙**

Gender: Male **Email Address:** zhuolong@pjlab.org.cn / zhuolong@email.szu.edu.cn

Birthday: 04/09/1997 **Mobile Phone:** (+86) 13798281551

Residence: Beijing, China **Languages:** Chinese (native), English (proficient)

Homepage: Long Zhuo **Research Interests:** Computer Vision & Deep Learning

Education

07/2017-09/2017 Visiting Student — **International Technological University (San Jose, California, USA)** Summer School of Computer Science and High-tech Teaching

09/2015 – 07/2019 Bachelor of Computer Science — **College of Computer Science& Software Engineering, Shenzhen University, China** Software Engineering, GPA 85/100

Publications & Recent Papers

(Conference-Accepted-Second Author) *RenderMe-360: A Large Digital Asset Library and Benchmarks Towards High-fidelity Head Avatars.* **In Neural Information Processing Systems (NeurIPS) Dataset and Benchmark Track.**

(Conference-Published-First Author) *Fast Vid2Vid: Spatial-temporal compression for Video-to-video synthesis.* **In European Conference on Computer Vision (ECCV2022).**

(Journal-Published-First Author) *Self-Adversarial Training incorporating Forgery Attention for Image Forgery Localization.* **In IEEE Transactions on Information Forensics and Security (TIFS).**

(Journal-Published-First Author) *ISP-ULGAN: Inception Sub-Pixel Deconvolution based universal and lightweight GANs.* **In Multimedia Tools and Applications (MTA).**

(Conference-Published-First Author) *Fake Colorized Image Detection with Channel-wise Convolution based Deep-learning Framework.* **In 2018 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC). IEEE.**

(Conference-Published-First Author) *HCF-Net: Hybrid Coarse-to-Fine Network for Forgery Reconstruction.***In Proceedings of the 30th International Joint Conference on Artificial Intelligence (IJCAI)** Workshop: Safety & Security of Deep Learning.

(Journal-Under Review-First Author) *Evading Detection Actively: Deep Anti-Forensics against Forgery Localization.* **To IEEE Transactions on Dependable and Secure Computing (TDSC).**

(Journal-Under Review-First Author) *Fast-Vid2Vid++: Spatial-temporal feature-based knowledge distillation for Video-to-video synthesis.* **To IEEE Transactions on Pattern Analysis and Machine**

Intelligence (TPAMI).

(Arxiv-Pending-Co-First Author) *A Novel Feature-Based Model for Zero-Shot Object Detection.*

Research Experience

10/2017 – 02/2018 IEEE 2017 SPSCUP Camera Source Detection Competition	**Project Member** Classified digital images to its source cameras using machine learning & deep learning. Implemented several deep neural networks, embedding, and transfer learning.
03/2018 – 06/2018 Image Colorization Detection of steganalysis	**First Author** Detected the fake colorized image. Successfully detected colorization methods in recent years and **reached almost 100% accuracy**. **This work has been published in APASIPA-2018.**
02/2019-04/2019 IJCAI-19 ALI Adversarial AI Challenge	**Team Leader** Deep-learning model is considered fragile. Utilized adversarial samples within the most advanced method combined with a new idea, which was to blur the contour. Gained 23rd finally.
07/2019-10/2019 ZhiJiang Global Cup Zero-shot Object Detection Competition	**Team Member** Zero-shot object detection is to train the object-detection model on the known categories and classify the unknown categories. **Gained 3rd in the competition.** The method is planning to be published.
12/2019 – 05/2020 Lightweight GAN for Colorization	**First Author** Presented a novel GAN framework to overcome the distortion of deconvolution. The proposed GAN is effective and Lightweight. T**his work has been published in MTA.**
08/2020 – 06/2021 Forgery Reconstruction	**First Author** Proposed a novel application, forgery reconstruction. **This work has been published in IJCAIw-21.**
01/2022-10/2022 Anti-Forensics	**First Author** Hid the traces of manipulations in images and presented a novel GANs framework to achieve anti-forensics performance. This work has been submitted to TDSC.
09/2020-02/2022 Forgery Localization	**First Author** Proposed a novel attention mechanism to localize the tampered images. **This work has been published in TIFS.**
03/2021-05/2022 Fast Vid2vid Synthesis	**First Author** Aiming to propose a fast framework for video-to-video synthesis. **This work has been published in ECCV2022.**
10/2022-Present	**Second Author**

Large-scale Rendering Face Dataset	Aiming to create a large-scale rendering face dataset by collecting real persons' face dataset with multi-view camera. **This work has been accepted in NeurIPS.**
05/2022-01/2023 Fast-Vid2vid++	**First Author** Aiming to propose a fast framework with spatial-temporal knowledge distillation for video-to-video synthesis. This work has been submitted to TPAMI.

Working Experience

01/2018 –04/2018 Internship	**Tencent** Co., Ltd. Worked in the Intelligent Perception Team, which is an energetic NLP team. **He have developed some chatbots for popular game *Honor Of Kings*, which can generate jokes and stories, using Seq2Seq technique.**
05/2017-03/2021 Research Assistant	**Shenzhen Key Lab of Media Security** Worked as a research assistant in the Lab for more than 3 years. **He was supervised by Prof. Jiwu Huang, IEEE fellow.**
03/2021-Present Intelligent Video Researcher	**SenseTime & Shanghai AI Lab** Working as a research assistant. **Developing fast and faster video synthesis algorithm and researching on GANs compression supervised by Dr. Wayne Wu and Prof. Ziwei Liu.**

Awards

02/2018	International	**4th Place**	2017 SPScup Challenge
05/2019	International	**23rd Place**	IJCAI-19 ALI Adversarial AI Challenge
10/2019	International	**3rd Place**	2019 ZhiJiang Lab Cup Global AI Competition

Patent

Published	《基于图像生成网络模型的图像处理方法、系统及存储介质》
Published	《一种图像处理生成方法、智能终端及存储介质》
Published	《篡改图像中篡改区域的定位方法、装置、终端及存储介质》
Published	《一种基于深度学习模型实现的篡改定位方法》