Xianhang Li

https://xhl-video.github.io/xianhangli/

Email: xli421@ucsc.edu
Mobile: 850-755-0939

EDUCATION

University of California, Santa Cruz
Ph.D. student in Computer Science and Engineering

Santa Cruz, CA
Sep. 2021 – Now

University of Central Florida
M.Sc in Computer Science

Orlando, FL
Aug. 2019 – May 2021

Beijing University of Posts and Telecommunications
B.E. in Telecommunications Engineering and Management

Beijing, China
Sep. 2014 – June 2018

RESEARCH INTEREST

I am a Ph.D. student at UCSC, under the supervision of Prof. Cihang Xie. My primary research interests are computer vision and deep learning. My recent works mainly focus on visual recognition and video synthesis.

PUBLICATIONS

[1] Fast AdvProp (submitted to ICLR 2022)
Jieru Mei, Yucheng Han, Yutong Bai, Yixiao Zhang, Yingwei Li, **Xianhang Li**, Alan Yuille, Cihang Xie
AdvProp suffers from the extremely slow training speed. We introduce Fast AdvProp, which aggressively revamps AdvProp's costly training components, rendering the method nearly as cheap as the vanilla training setting.

[2] Learning to Bootstrap for Combating Label Noise (submitted to CVPR 2022)
Yuyin Zhou, **Xianhang Li**, Fengze Liu, Xuxi Chen, Lequan Yu, Cihang Xie, Lungren Matthew, Lei Xing
We propose a novel and effective learning framework that significantly improves the performance on several noise-label benchmarks. Our method also achieves the state-of-the-art performance on the real-world noisy-label dataset.

[3] Pose-guided Generative Adversarial Net for Novel View Action Synthesis (WACV 2022)
Xianhang Li, Junhao Zhang, Kunchang Li, Shruti Vyas and Yogesh S Rawat
We present PAS-GAN for novel view video synthesis where we explore the use of pose to solve this problem. Generated target-view at pose space significantly reduces the learning difficulty and improve the quality of generated video.

[4] CT-Net: Channel Tensorization Network for Video Classification (ICLR 2021)
Kunchang Li*, **Xianhang Li***, Yali Wang*, Jun Wang, Yu Qiao (* Equal Contribution)
We propose channel Tensorization Network (CT-Net), by treating the channel dimension of input feature as a multiplication of K sub-dimensions. Our CT-Net outperforms a number of recent SOTA approaches, in terms of accuracy and/or efficiency.

[5] SmallBigNet: Integrating Core and Contextual Views for Video Classification (CVPR 2020)
Xianhang Li*, Yali Wang*, Zhipeng Zhou*, Yu Qiao (* Equal Contribution)
We propose a concise SmallBig network, with the cooperation of small and big views that can provide the small view branch with the most activated video features from a broader 3D receptive field. Our SmallBig network outperforms recent SOTA approaches.

RESEARCH EXPERIENCE

University of California, Santa Cruz
Research Assistant, advised by Prof. Cihang Xie

Santa Cruz, CA
June 2021 – Now

University of Central Florida
Graduate Research Assistant, advised by Prof. Yogesh S Rawat

Orlando, FL
May 2020 – May 2021

MMLab, SIAT
Visiting Student, advised by Prof. Yu Qiao

Shenzhen, China
Oct. 2018 – Nov. 2020

AWARD

University of California, Santa Cruz Chancellor's Fellowship, 2021

TECHNICAL SKILLS

Languages: Python, Java, C
Frameworks: Pytorch, Tensorflow, Caffe, React, Flask

PROFESSIONAL SERVICES

Reviewer: ICCV 2021, WACV 2022, CVPR 2022