Kunchang Li

✉ kc.li@siat.ac.cn · ☎ (+86) 15652583072 · G Google · ⌂ GitHub

Education

University of Chinese Academy of Sciences, Shenzhen, China   2020 – Present

Ph.D. student in Computer Application Technology at Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, advised by Prof. Yu Qiao & Prof. Yali Wang.
- Overall GPA: 3.73/4.0   Rank: Not provided

Beihang University, Beijing, China   2016 – 2020

B.E. in Software Engineering at the School of Software.
- Overall GPA: 3.85/4.0   Rank: 4/165

Honors

- **1st** Place in Forecasting Challenge (ECCV2022 Ego4D Workshop)   2022
- **2nd** Place in Action Recognition in the Dark Challenge (CVPR2022 UG2+ Workshop)   2022
- **1st** Place in Semantic Segmentation of Remote Sensing Images (CCF BDCI Contest)   2021
- **Comprehensive Grand Prize** of CCF BDCI Contest   2021
- **Excellent** Higher Education Graduate of Beijing Municipality   2020
- Grand Prize of Social Work Scholarship, Grand Prize of Study Excellence Scholarship, Merit Student and Honor student at Beihang University   2017, 2018, 2019

Research Interests

- Vision Backbone (Efficient Architecture Design, Large-scale Pre-training)
- Video Understanding (Action Recognition)
- Multimodal Learning & Large Language Model

Internships

Shanghai AI Lab, Shanghai, China   Nov. 2021 – Present

Advisors: Yali Wang, Limin Wang and Yi Wang
General Video Foundation Model; Large-scale Pre-training; Multimodal Learning

SenseTime, Beijing, China   Feb. 2021 – Nov. 2021

Advisors: Guanglu Song and Yu Liu
Efficient Architecture Design; Video Understaning

MEGVII, Beijing, China   Oct. 2019 – Jan. 2020

Acceleration Face Recognition Model; Model Reproduction for MegEngine

Selected Papers

See the full paper list here. * refers to the **co-first authors**. All the code can be found on GitHub.

[1] **Kunchang Li**, Yali Wang, et al., "Unmasked Teacher: Towards Training-Efficient Video Foundation Models." **ICCV2023 (Oral Presentation)**.

[2] **Kunchang Li**, Yali Wang, et al., "UniFormerV2: Unlocking the Potential of Image ViTs for Video Understanding." **ICCV2023**.

[3] **Kunchang Li***, Yali Wang*, et al., "UniFormer: Unifying convolution and self-attention for visual recognition." **TPAMI2023**.

[4] **Kunchang Li***, Yali Wang*, et al., "UniFormer: Unified Transformer for Efficient Spatiotemporal Representation Learning." **ICLR2022 (8868, Top 3%)**.

[5] **Kunchang Li***, Yali Wang*, et al., "CT-Net: Channel tensorization network for video classification." **ICLR2021**.

[6] **Kunchang Li***, Yinan He*, et al., "VideoChat: Chat-Centric Video Understanding." Arxiv:2305.06355.

[7] Yi Wang*, **Kunchang Li***, et al., "InternVideo: General Video Foundation Models via Generative and Discriminative Learning." Arxiv:2212.03191.

[8] Junhao Zhang*, **Kunchang Li***, et al., 'MorphMLP: A Self-Attention Free, MLP-Like Backbone for Image and Video." **ECCV2022**.

[9] Zhuofan Zong*, **Kunchang Li***, et al., "Self-slimmed vision transformer." **ECCV2022**.

PROJECTS

- **Grounded-Segment-Anything**: GitHub Trending with **10k+** stars.
- **Ask-Anything**: GitHub Trending with **2k+** stars.
- **InternGPT**: GitHub Trending with about **3k** stars.
- **UniFormer**: Efficient vision backbone with about **200** citations.
- **UniFormerV2**: Plug-and-play temporal module with strong performances.
- **Unmasked Teacher**: Efficient and powerful video foundation models.
- **InternVideo**: General video foundation models.
- **Seg4Fun**: **Top-1** solution for CCF BDCI Segmentation.

SERVICES

Conference Reviewer: ICLR2023, CVPR2023, ICCV2023, NeurIPS2023

Journal Reviewer: TPAMI, PR, NN, JVCI

Talk: AI Drive 2022, AI Time 2022, AI Time 2023