Kaichao You

Homepage: https://youkaichao.github.io/

Education

- 09/2016 07/2020, Tsinghua University, Software Engineering, Bachelor of Engineering
 - Graduate with honor: Tsinghua Top Grade Scholarship (the highest honor for Tsinghua undergraduates)
- 07/2019 09/2019, University of California, Berkeley, Visiting Student Researcher at <u>RISELab</u>
 - Hosted by Michael I. Jordan
- 08/2020 07/2025(expected), Tsinghua University, Software Engineering, PhD student
 - Deep learning algorithms and systems
- 03/2024 12/2024(expected), University of California, Berkeley, Visiting PhD Researcher at <u>sky lab</u>
 - Hosted by Ion Stoica
 - Working on the <u>vLLM</u> project

Selected Awards

- Tsinghua Top Grade Scholarship (Undergraduates), Tsinghua University (2019)
 - the best honor for undergraduates in Tsinghua
- Outstanding Undergraduate in School of Software, Tsinghua University, and Beijing.
- NeurIPS 2021 Outstanding Reviewer Award
- National Scholarship for PhDs, 2021
- Ranked 275 globally at Al2000 in ICML. Link
- Bytedance Scholarship, Bytedance, 2022
- Baidu Scholarship, Baidu, 2022
- 2023 Apple Scholars in AI/ML PhD fellowship

Open-Source Contribution

If you are working with AI/ML, there are probably some lines of code in your computer/server that are written by me!

I'm a core developer for:



Python 1.1k

I'm a collaborator and constantly contribute to:



I contribute a language server protocol (LSP) to triton:



I have many other random contributions to the following famous open-source projects:



📮 mmengine

OpenMMLab Foundational Library for Training Deep Learning Models

● Python 🏠 1.1k 🦳 😵 331

□ mmdetection

OpenMMLab Detection Toolbox and Benchmark

● Python 🏠 28.7k 🦷 😵 9.3k

📮 tiktoken

tiktoken is a fast BPE tokeniser for use with OpenAI's models.





Publication

Note: * indicates equal contribution with the second author.

Journal Articles

- From Big to Small: Adaptive Learning to Partial-Set Domains <u>TPAMI</u> arxiv <u>IEEE</u>
 Xplore
 - Kaichao You*, Zhangjie Cao, Ziyang Zhang, Jianmin Wang, Mingsheng Long
- Ranking and Tuning Pre-trained Models: A New Paradigm for Exploiting Model Hubs <u>JMLR paper code</u>
 - Kaichao You, Yong Liu, Ziyang Zhang, Jianmin Wang, Michael I. Jordan, Mingsheng Long
- Tianshou: A Highly Modularized Deep Reinforcement Learning Library <u>JMLR</u>
 <u>arxiv code</u>
 - Jiayi Weng, Huayu Chen, Dong Yan, Kaichao You, Alexis Duburcq, Minghao Zhang, Hang Su, Jun Zhu
 - Github O Stars 7.6k
 - Core developers
- Event-based Semantic Segmentation with Posterior Attention <u>TIP IEEE Xplore</u>
 - Zexi Jia, Kaichao You*, Weihua He, Yang Tian, Yongxiang Feng, Yaoyuan Wang, Xu Jia, Yihang Lou, Jingyi Zhang, Guoqi Li, Ziyang Zhang

Conference Proceedings

- Universal Domain Adaptation <u>CVPR2019</u>
 - Kaichao You, Mingsheng Long, Zhangjie Cao, Jianmin Wang, Michael I. Jordan
- Learning to Transfer Examples for Partial Domain Adaptation <u>CVPR2019</u>

- Kaichao You*, Zhangjie Cao, Mingsheng Long, Jianmin Wang, Qiang Yang
- Towards Accurate Model Selection in Deep Unsupervised Domain Adaptation
 <u>ICML2019</u>
 - Kaichao You, Ximei Wang, Mingsheng Long, Michael I. Jordan
- Stochastic Normalization <u>NeurIPS2020</u>
 - Kaichao You*, Zhi Kou, Mingsheng Long, Jianmin Wang
- Co-Tuning for Transfer Learning <u>NeurIPS2020</u>
 - Kaichao You, Zhi Kou, Mingsheng Long, Jianmin Wang
 - Second Prize of <u>Spectra Review Paper Competition</u>, see the <u>blog</u>
- LogME: Practical Assessment of Pre-trained Models for Transfer Learning
 <u>ICML2021</u>
 - Kaichao You, Yong Liu, Jianmin Wang, Mingsheng Long
 - Included in Google Research.
- TimeReplayer: Unlocking the Potential of Event Cameras for Video Interpolation <u>CVPR2022</u> arxiv
 - Weihua He, Kaichao You, Zhendong Qiao, Xu Jia, Ziyang Zhang, Wenhui Wang, Huchuan Lu, Yaoyuan Wang, Jianxing Liao
 - Selected by <u>Prophesee</u> as a representative method in event-based slow motion. <u>Blog</u>
- Video Interpolation by Event-driven Anisotropic Adjustment of Optical Flow
 <u>ECCV2022 arxiv</u>
 - Song Wu, Kaichao You*, Weihua He, Chen Yang, Yang Tian, Yaoyuan Wang, Jianxing Liao, Ziyang Zhang
- Test-Time Training-Free Domain Adaptation <u>ICASSP</u>
 <u>2023(https://2023.ieeeicassp.org/)</u> IEEE
 Vplore(https://ieeevplore.ieee.org/obstract/document/100066

Xplore(https://ieeexplore.ieee.org/abstract/document/10096430)

- Yongxiang Feng, Weihua He, Kaichao You, Bing Liu, Ziyang Zhang, Yaoyuan Wang, Minglei Li, Yihang Lou, Jiawei Li, Guoqi Li, Jianxing Liao
- Efficient ConvBN Blocks for Transfer Learning and Beyond ICLR

2024(https://openreview.net/forum?id=IHZm9vNm5H) [arxiv] [code]

- Kaichao You, Guo Qin, Anchang Bao, Meng Cao, Ping Huang, Jiulong Shan, Mingsheng Long
- This feature has been already integrated into <u>MMCV</u> and <u>PyTorch</u>. It is available starting from PyTorch 2.2.

Professional Activities

- PC Member | Reviewer
 - TNNLS / WACV / IJCAI / AAAI / IEEE TIP / Neurocomputing / IEEE TPAMI / ICCV / CVPR / ICLR / ICML / NeurIPS

Invited Talks

- Present oral talks and posters at <u>MLA 2019</u>, November 2nd 3rd 2019
- Advances in Domain Adaptation: Setting, Method and Model Selection at <u>BAAI</u> Live, Dec. 24, 2019
 - Video Link
- LogME: Practical Assessment of Pre-trained Models for Transfer Learning at BAAI Live, Mar. 10, 2021
- Efficient Transfer Learning Across Data, Model, and Modality at Apple APAC AI/ML tech talk. Mar. 9, 2023

Competition

• VisDA2018 Classification Track, 3rd place

Experiences

- Internship at Apple, AIML
 - From 2023/02 to 2024/02
 - Beijing, China
 - Machine learning / Data-centric learning