

Hao Chen

Artificial intelligence is about the people, not the machines.

CONTACT INFORMATION

E-mail: haochen.umd@gmail.com
Homepage: <https://haochen-rye.github.io>

WORKING EXPERIENCE

Postdoctoral Researcher at **Meta** July 2023 - Now
New York City, NY

EDUCATION

PhD in Computer Science Sep. 2018 - May 2023
University of Maryland, Colledge Park
Advisor: Abhinav Shrivastava

Master in Pattern Recognition & Intelligent System Sep. 2015 - Jun. 2018
Huazhong University of Science & Technology
Advisor: Guoyou Wang

B.Eng in Optoelectronic Information Engineering Sep. 2011 - Jun. 2015
Huazhong University of Science & Technology

INTERESTS

Implicit video representation, advanced compression techniques, discriminative self-learning, generative pre-training, efficient deployment of deep neural networks

PUBLICATIONS

- Fast Encoding and Decoding for Implicit Video Representation
(**Under Review**)
Hao Chen, Saining Xie, Ser-Nam Lim, Abhinav Shrivastava
- HNeRV: A Hybrid Neural Representation for Videos
(**CVPR 2023**)
Hao Chen, Matt Gwilliam, Ser-Nam Lim, Abhinav Shrivastava
- Towards Scalable Neural Representation for Diverse Videos
(**CVPR 2023**)
Bo He, Xitong Yang, Hanyu Wang, Zuxuan Wu, **Hao Chen**, Shuaiyi Huang, Yixuan Ren, Ser-Nam Lim, Abhinav Shrivastava
- CNeRV: Generalizable Neural Visual Representation with Content-adaptive Embedding
(**BMVC 2022 Oral**)
Hao Chen, Matt Gwilliam, Bo He, Ser-Nam Lim, Abhinav Shrivastava
- NeRV: Neural Representations for Videos
(**NeurIPS 2021**)
Hao Chen, Bo He, Hanyu Wang, Yixuan Ren, Ser-Nam Lim, Abhinav Shrivastava
- HR-RCNN: Hierarchical Relational Reasoning for Object Detection
(**BMVC 2021**)
Hao Chen, Abhinav Shrivastava
- Group Ensemble: Learning an Ensemble of ConvNets in a single ConvNet
(**Arxiv Preprint**)
Hao Chen, Abhinav Shrivastava
- The Lottery Ticket Hypothesis for Object Recognition
(**CVPR 2021**)

Sharath Girish, Shishira R. Maiya, Kamal Gupta, **Hao Chen**, Larry Davis, Abhinav Shrivastava

- GTA: Global Temporal Attention for Video Action Understanding
(**BMVC 2021**)

Bo He, Xitong Yang, Zuxuan Wu, **Hao Chen**, Ser-Nam Lim, Abhinav Shrivastava

- Progressive Object Transfer Detection
(**TIP-2019**)

Hao Chen, Yali Wang, Guoyou Wang, Xiang Bai, Yu Qiao

- LSTD: A Low-Shot Transfer Detector for Object Detection
(**AAAI-18 Spotlight**)

Hao Chen, Yali Wang, Guoyou Wang, Yu Qiao

EXPERIENCE

- Multimedia Lab at Shenzhen Institutes of Advanced Technology
Visiting student, work closely with Prof. Yu Qiao (Jan. 2017 - Aug. 2017)
- Teaching assistant for CMSC320 at UMD (2018 Fall)
- Research assistant for Prof. Abhinav at UMD (2019 - 2023)
- Research intern at Adobe (May 2021 - August 2021)
Work on panoptic segmentation, with Zhe Lin
- Research intern at Titok (May 2022 - August 2022)
Work on generalizable video neural representation, with Heng Wang

AWARDS

- National Endeavor Fellowship in 2013
- UMD Dean Fellowship 2019-2020