
EDUCATION

- **University of Maryland, College Park** Sept 2018 - Now
Ph.D. in Computer Science; Advisor: Abhinav Shrivastava; GPA: 4.0/4.0
Maryland, USA
- **Columbia University** Jan 2017 - July 2017
Visiting Student in Computer Science; GPA: 4.0/4.0
New York, USA
- **University of Chinese Academy of Sciences (UCAS)** Sept 2014 - June 2018
Bachelor in Computer Science; GPA: 3.88/4.0
Beijing, China

RESEARCH INTEREST

My research interests broadly include deep learning and computer vision. I am especially interested in action recognition, action detection, video understanding and representation learning.

RESEARCH EXPERIENCE

- **Adobe** May 2022 - Now
Research Intern Mentor: Zhaowen Wang, Trung Bui
 - Research about multi-modal summarization task with video and text as input.
- **Baidu Research USA** Mar 2021 - Jan 2022
Research Intern Mentor: Le Kang
 - Research about weakly-supervised temporal action localization.
 - 1-st place in CVPR2021 SoccerNet-v2 challenge on action spotting and replay grounding tasks. [Link](#)
- **University of Maryland** Jan 2019 - Now
Research Assistant Advisor: Prof. Abhinav Shrivastava
 - Research about action recognition, video understanding, and object detection.

PUBLICATIONS

- *CNeRV: Content-adaptive Neural Representation for Visual Data.*
Hao Chen, Matthew Gwilliam, **Bo He**, Ser-Nam Lim, Abhinav Shrivastava.
British Machine Vision Conference (**BMVC**), oral, 2022.
- *Learning Semantic Correspondence with Sparse Annotations.*
Shuaiyi Huang, Luyu Yang, **Bo He**, Songyang Zhang, Xuming He, Abhinav Shrivastava.
European Conference on Computer Vision (**ECCV**), 2022. [PDF](#)
- *ASM-Loc: Action-aware Segment Modeling for Weakly-Supervised Temporal Action Localization.*
Bo He, Xitong Yang, Le Kang, Zhiyu Cheng, Xin Zhou, Abhinav Shrivastava.
Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022. [PDF](#)
- *Recognizing Actions using Object States.*
Nirat Saini, **Bo He**, Gaurav Shrivastava, Sai Saketh Rambhatla, Abhinav Shrivastava.
The International Conference on Learning Representations Workshop, (**ICLRW**), 2022. [PDF](#)
- *NeRV: Neural Representations for Videos.*
Hao Chen, **Bo He**, Hanyu Wang, Yixuan Ren, Ser-Nam Lim, Abhinav Shrivastava.
Conference on Neural Information Processing Systems (**NeurIPS**), 2021. [PDF](#)
- *GTA: Global Temporal Attention for Video Action Understanding.*
Bo He*, Xitong Yang*, Zuxuan Wu, Hao Chen, Sernam Lim, Abhinav Shrivastava.
British Machine Vision Conference (**BMVC**), 2021. [PDF](#)