Bo He
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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

- **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. <u>Link</u>

- **University of Maryland** Jan 2019 - Now
  Research Assistant *Advisor: Prof. Abhinav Shrivastava*
  - Research about action recognition, video understanding, and object detection.

- **Institute of Computing Technology, CAS** Sept 2017 - May 2018
  Research Assistant *Advisor: Prof. Xilin Chen and Prof. Meina Kan*
  - Research about facial attributes transferring based on generative adversarial networks.

PUBLICATIONS

- *Learning Semantic Correspondence with Sparse Annotations.*
  Shuaiyi Huang, Luyu Yang, **Bo He**, Songyang Zhang, Xuming He, Abhinav Shrivastava.
  In Submission.

- *GNeRV: Generalizable Neural Visual Representation with Content-adaptive Embedding.*
  Hao Chen, Matthew Gwilliam, **Bo He**, Ser-Nam Lim, Abhinav Shrivastava.
  In Submission.

- *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.

- *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. <u>PDF</u>

- *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. <u>PDF</u>

SKILLS

- **Programming Languages**: Python, C, LaTeX, Matlab, Git, SQL, Java

- **Frameworks and Tools**: Pytorch, OpenCV, Tensorflow