

BOWEN PAN

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32-D416, 77 Massachusetts Avenue, Cambridge, MA 02139

EDUCATION

Massachusetts Institute of Technology (MIT), USA

Sept. 2019 - May 2024 (expected)

- Ph.D. Student, CSAIL, EECS

- **Advisors:** Prof. [Aude Oliva](#)

Shanghai Jiao Tong University (SJTU), China

Sept. 2015 - Jun. 2019

- Bachelor of Engineering, Electronic Science and Technology

RESEARCH INTERESTS

Computer Vision, Robotics, Efficient Deep Learning, Scene Understanding.

PRE-PRINT

- Mathew Monfort, Kandan Ramakrishnan, Alex Andonian, Barry A McNamara, Alex Lascelles, **Bowen Pan**, Dan Gutfreund, Rogerio Feris, and Aude Oliva. “Multi-Moments in Time: Learning and Interpreting Models for Multi-Action Video Understanding.” *arXiv preprint arXiv:1911.00232 (arXiv)*, 2019. [[Link](#)]

PUBLICATIONS

- Benjamin Wilson, William Qi, Tanmay Agarwal, John Lambert, Jagjeet Singh, Siddhesh Khandelwal, **Bowen Pan**, Ratnesh Kumar, Andrew Hartnett, Jhony Kaesemodel Pontes, Deva Ramanan, Peter Carr, and James Hays. “Argoverse 2.0: Next Generation Datasets for Self-Driving Perception and Forecasting.” *In Proceedings of The Thirty-fifth Conference on Neural Information Processing Systems Track on Datasets and Benchmarks (NeurIPS)*, 2021. [[Link](#)]
- **Bowen Pan**, Yifan Jiang, Rameswar Panda, Zhangyang Wang, Rogerio Feris, and Aude Oliva. “IA-RED²: Interpretable-Aware Redundancy Reduction for Vision Transformer.” *In Proceedings of The Thirty-fifth Conference on Neural Information Processing Systems (NeurIPS)*, 2021. [[Link](#)]
- **Bowen Pan**, Rameswar Panda, Camilo Fosco, Chung-Ching Lin, Alex Andonian, Yue Meng, Kate Saenko, Aude Oliva, and Rogerio Feris. “VA-RED²: Video Adaptive Redundancy Reduction.” *In Proceedings of The Ninth International Conference on Learning Representations (ICLR)*, 2021. [[Link](#)]
- **Bowen Pan**, Jiankai Sun, Ho Yin Tiga Leung, Alex Andonian, and Bolei Zhou. “Cross-view Semantic Segmentation for Sensing Surroundings.” *IEEE Robotics and Automation Letters (RA-L)* and *IROS*, 2020. [[Link](#)]
- **Bowen Pan**, Jiankai Sun, Wuwei Lin, Limin Wang, and Weiyao Lin. “Cross-stream Selective Networks for Action Recognition.” *In Proceedings of The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, 2019. [[Link](#)]
- **Bowen Pan**, Wuwei Lin, Xiaolin Fang, Chaoqin Huang, Bolei Zhou, and Cewu Lu. “Recurrent Residual Module for Fast Inference in Videos.” *In Proceedings of The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018. [[Link](#)]
- Zhijian Liu, **Bowen Pan**, Yuliang Xiu, and Cewu Lu. “PoseHD: Boosting Human Detectors using Human Pose Information.” *In Proceedings of The AAAI Conference on Artificial Intelligence (AAAI)*, 2018. [[Link](#)]

TEACHING EXPERIENCES

Teaching Assistant of SJTU Embedded Systems and Deep learning Practice

Spring 2018

PROFESSIONAL SERVICE

Reviewed papers for

Conference:

IEEE Conference on Computer Vision and Pattern Recognition (CVPR)

International Conference on Computer Vision (ICCV)

European Conference on Computer Vision (ECCV)

AAAI Conference on Artificial Intelligence (AAAI)

Journal:

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

INDUSTRY EXPERIENCES

Argo AI

June 2021 - Present

Research Scientist Intern

Pittsburgh, PA

Mentors: Prof. James Hays, Dr. Jhony K. Pontes

- Developing a LiDAR points forecasting framework of the outdoor scenarios with large-scaled unlabeled data.

AWARDS AND HONORS

SenseTime Scholarship (Top 30 undergrad students in AI research in China)

2019

SJTU Excellence Scholarship (Top 10% undergrad students in SJTU)

2017

SKILLS

Programming Language: Python, Matlab, R, C++, Julia