
Education

- Aug. 2021 - Present **Ph.D. Student**, *The University of North Carolina at Chapel Hill, NC, USA*,
Department of Computer Science.
- Sep. 2017 - Aug. 2019 **M.S.**, *National Taiwan University. Taipei, Taiwan*,
Graduate Institute of Communication Engineering,
[IPPR 2019 Master Thesis Honorable Mention Award](#)
[TAAI 2019 Master Thesis Honorable Mention Award](#).
GPA – 4.02/4.3
- Sep. 2013 - Jun. 2017 **B.S.**, *National Central University, Taoyuan, Taiwan*,
Department of Computer Science,
[Undergraduate Research First Prize](#).
GPA – 3.89/4 (89.45/100), Rank – 7/120

Publications

- CVPR 2023 **Yan-Bo Lin**, Yi-Lin Sung, Jie Lei, Mohit Bansal, and Gedas Bertasius. ***Vision Transformers are Parameter-Efficient Audio-Visual Learners***. In IEEE Conference on Computer Vision and Pattern Recognition, 2023.
- CVIU 2023 **Yan-Bo Lin**, Hung-Yu Tseng, Hsin-Ying Lee, Yen-Yu Lin, and Ming-Hsuan Yang. ***Unsupervised Sound Localization via Iterative Contrastive Learning***. Invited paper at CVPRW 2021. Computer Vision and Image Understanding, 2023.
- ECCV 2022 Oral **Yan-Bo Lin**, Jie Lei, Mohit Bansal, and Gedas Bertasius. ***ECLIPSE: Efficient Long-range Video Retrieval using Sight and Sound***. In European Conference on Computer Vision, 2022.
- NeurIPS 2021 **Yan-Bo Lin**, Hung-Yu Tseng, Hsin-Ying Lee, Yen-Yu Lin, and Ming-Hsuan Yang. ***Exploring Cross-Video and Cross-Modality Signals for Weakly-Supervised Audio-Visual Video Parsing***. Advances in Neural Information Processing Systems, 2021.
- AAAI 2021 **Yan-Bo Lin** and Yu-Chiang Frank Wang. ***Exploiting Audio-Visual Consistency with Partial Supervision for Spatial Audio Generation***. In AAAI Conference on Artificial Intelligence, 2021.
- ACCV 2020 **Yan-Bo Lin** and Yu-Chiang Frank Wang. ***Audiovisual Transformer with Instance Attention for Audio-Visual Event Localization***. In Asian Conference on Computer Vision, 2020.
- ICCV 2019 Yu-Jhe Li, Ci-Siang Lin, **Yan-Bo Lin**, and Yu-Chiang Frank Wang. ***Cross-Dataset Person Re-Identification via Unsupervised Pose Disentanglement and Adaptation***. In IEEE International Conference on Computer Vision, 2019.
- ICASSP 2019 **Yan-Bo Lin**, Yu-Jhe Li, and Yu-Chiang Frank Wang. ***Dual-modality seq2seq network for audio-visual event localization***. In IEEE International Conference on Acoustics, Speech and Signal Processing, 2019.
- IDA 2017 Tuan Pham, Yuan-Shan Lee, **Yan-Bo Lin**, Tzu-Chiang Tai and Jia-Ching Wang. ***Single channel source separation using graph sparse NMF and adaptive dictionary learning***. In Intelligent Data Analysis, 2017.

Experience

- Aug. 2021 - Present **Graduate Research Assistant.**, *The University of North Carolina at Chapel Hill, NC, USA*.
Advisor: Prof. Gedas Bertasius
- Project: Long-term video understanding with multimodal data.

- Aug. 2020 - Jul. 2021 **Vision and Learning Lab**, *National Chiao Tung University, Hsinchu, Taiwan.*
 Research Assistant. Advisor: Prof. Yen-Yu Lin (NCTU) and Prof. Ming-Hsuan Yang (UC Merced)
 ○ Project: Sound localization in self-supervised fashion.
 ○ We propose an iterative contrastive learning framework that requires no data annotation. At each iteration, the proposed method takes the localization results in the previous iteration as the pseudo-annotations.
- Aug. 2019 - Jul. 2020 **Vision and Learning Lab**, *National Taiwan University, Taipei, Taiwan.*
 Research Assistant. Advisor: Prof. Yu-Chiang Frank Wang
 ○ Project: Exploiting Audio-Visual Consistency with Partial Supervision for Spatial Audio Generation
 ○ We exploit the correlation between each audio component and the spatial regions of interest, which would guide the learning of binaural audio generation during training.
- Mar. 2019 - Jun. 2019 **National Institute of Informatics**, *Tokyo, Japan.*
 Research Intern. Mentor: Dr. Yin-Qiang Zheng
- Sep. 2017 - Feb. 2019 **Vision and Learning Lab**, *National Taiwan University, Taipei, Taiwan.*
 Student Researcher. Advisor: Prof. Yu-Chiang Frank Wang
 ○ Project: Cross-Modality Attention for Audio-Visual Event Localization
 ○ **Awarded two master thesis honorable mention awards from IPPR and TAAI respectively.**
- Aug. 2015 - Aug. 2017 **Deep Learning and Media System Lab**, *National Central University, Taoyuan, Taiwan.*
 Undergraduate Research Assistant. Advisor: Prof. Jia-Ching Wang
 ○ Topic: National Science Council (NSC) research project on blind source separation (BSS).
 ○ **First prize in the undergraduate research project competition.**

Honors

- Nov. 2019 **Master Thesis Honorable Mention Award**,
Taiwan Association for Artificial Intelligence.
 ○ Awarded from the most representative associations for artificial intelligence in Taiwan.
- Aug. 2019 **Master Thesis Honorable Mention Award**,
Chinese Image Processing and Pattern Recognition Society.
 ○ Awarded from the most representative associations for image processing in Taiwan.
- Sep. 2016 **Excellent Student Scholarship.**
 ○ Awarded to two students in CS department with outstanding achievements in any areas.
- Jun. 2016 **Undergraduate Research Project First prize.**
 ○ Undergraduate special thesis competition at NCU.
- Aug. 2015 **Best paper award**,
 ASE International Conference on Social Informatics.
 ○ Tuan Pham, Yuan-Shan Lee, **Yan-Bo Lin**, Tzu-Chiang Tai, and Jia-Ching Wang. **Single Channel Source Separation Using Sparse NMF and Graph Regularization.**
- Sep. 2013 – Jun. 2017 **Dean's List Award (three times)**,
Undergraduate at NCU, B.S. in Computer Science.
 ○ **Awarded to students in the CS department with the top 5% GPA each semester**
 ○ 2016 fall, 2015 spring, and 2014 fall.

Teaching

- Sep. 2018 - Feb. 2019 **Teaching Assistant**, *National Taiwan University, Taipei, Taiwan.*
 Introduction to Digital Signal Processing.
 ○ Instructor: Prof. Chu-Song Chen.
- Mar. 2018 - Jun. 2018 **Teaching Assistant**, *National Taiwan University, Taipei, Taiwan.*
 Deep Learning for Computer Vision.
 ○ Instructor: Prof. Yu-Chiang Frank Wang.

Professional Activities

- Reviewer AAAI, ECCV, CVPR, TPAMI
 Program Committee T4V: Transformers for Vision workshop at CVPR 2022