

Education

- 2019–2023 **PhD, Multimedia Lab (MMLab)**, *Chinese University of Hong Kong (CUHK)*, HongKong, China.
Ph.D. student advised by Prof. Xiaogang Wang and Prof. Hongsheng Li.
- 2015–2017 **MS, Master in Electrical Engineering**, *BarcelonaTech School of Telecommunications Engineering (ETSETB)*, Barcelona, Spain.
- 2011–2015 **BS, Engineer's degree in Electrical Engineering**, *BarcelonaTech School of Telecommunications Engineering (ETSETB)*, Barcelona, Spain.

Publications

- 2022 **J. Pan***, Z. Lin*, X. Zhu, J. Shao, H. Li, ST-Adapter: Parameter-Efficient Image-to-Video Transfer Learning for Action Recognition. *NeurIPS*, 2022
- 2022 **J. Pan**, A. Bulat, F. Tan, X. Zhu, L. Dudziak, H. Li, G. Tzimiropoulos and B. Martinez, EdgeViTs: Competing Light-weight CNNs on Mobile Devices with Vision Transformers. *ECCV*, 2022
- 2021 **J. Pan***, S. Chen*, Z. Shou, J. Shao and H. Li, Actor-Context-Actor Relation Network for Spatio-Temporal Action Localization. *CVPR*, 2021. **(1st place solution of ActivityNet Challenge 2020 – AVA-Kinetics Task)**
- 2019 **J. Pan**, C. Wang, X. Jia, J. Shao, L. Sheng, J. Yan and XG. Wang, Video generation from Single Semantic Label Map. *CVPR*, 2019.
- 2018 **J. Pan***, Z. Shou*, J. Chan, K. Miyazawa, H. Mansour, A. Vetro, X. Giro-i-Nieto, S.F. Chang. Online Detection of Action Start in Untrimmed, Streaming Video. *European Conference on Computer Vision (ECCV)*, 2018. (* indicates equal contribution.)
- 2017 **J. Pan**, C. Canton, K. McGuinness, N.E. O'Connor, J. Torres, E. Sayrol, X. Giro-i-Nieto. SalGAN: Visual Saliency Prediction with Generative Adversarial Networks. *CVPR Scene Understanding Workshop (CVPR SUNw)*, 2017 **(Spotlight)**
- 2016 **J. Pan***, K. McGuinness*, N.E. O'Connor, E. Sayrol, X. Giro-i-Nieto. Shallow and Deep Convolutional Networks for Saliency Prediction. *Proceedings of THE IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016 (* indicates equal contribution.)
- 2015 **J. Pan**, X. Giro-i-Nieto. End-to-end convolutional network for saliency prediction. *CVPR Large Scale scene Understanding Workshop (LSUN)*

Research Experience

- Oct 2021–Feb **Research Intern**, *Samsung AI Center*, Cambridge, UK.
- 2019
- Working on efficient mobile vision transformer. (Work published in ECCV'22)
 - We investigated the design of light-weight ViTs from the practical on-device deployment perspective. and proposed a novel family of efficient ViTs.
 - Regarding on-device performance, towards relevance for real-world deployment, we directly consider latency and energy consumption of different models.
- Mar **Visiting Scholar**, *DVMM Lab at Columbia University*, New York, NY.
- 2017–Dec
- Work on Video Modelling and Prediction Task.
- 2017
- Propose novel methods for Online Action Detection that is to detect action in a timely manner and to recognize its action category.
 - I mostly contributed in the core idea for the detection model and its implementation.

- 2015–Feb 2017 **Research Assistant**, *Image Processing Group, Univesitat Politecnia de Catalunya*, Barcelona, Spain.
- Research on saliency prediction and generative models under supervision of Professor Xavier Giro-i-Nieto, Elisa Sayrol, Cristian Canton (Facebook, Seattle, WA) and Kevin McGuinness (Insight Centre DCU, Dublin, Ireland)
 - We proposed a winning solution for LSUN Challenge in CVPR'16 which was lately published in CVPR'17
 - We investigated the contribution of Adversarial loss in Saliency Prediction task. The model is now one of the most popular saliency prediction model (SalGAN).

Teaching Experience

- July 2016 **Teaching Assistant at Deep Learning for Computer Vision Summer Seminar**, *BarcelonaTech School of Telecommunications Engineering (ETSETB)*, Barcelona, Spain.
- Instructors Xavier Giro-i-Nieto, Elisa Sayrol, Jordi Torres, Kevin McGuinness, Amaia Salvador, Eva Mohedano
- March–June 2016 **Teaching Assistant at Introduction to Digital Communication**, *BarcelonaTech School of Telecommunications Engineering (ETSETB)*, Barcelona, Spain.
- Instructor Margarita Cabrera

Awards

- 2018 1st Place in AVA-Kinetics Crossover task of ActivityNet Challenge 2020.
- 2018 1st Place in Trimmed Activity Recognition task of ActivityNet Challenge 2020.
- 2015 1st Place in Saliency Prediction task of CVPR 2015 LSUN Challenge.
- 2015 Outstanding academic achievement recognition (6.37%)
- 2013 2nd Better Academic Record during the 2nd year of ICT degrees (2/361)
- 2012 3rd Better Academic Record during the 1st year of ICT degrees (3/361)

Professional Service

Reviewer

- Computer Vision and Pattern Recognition (CVPR 2019, 2020, 2021)
- Conference on Neural Information Processing Systems (2022)
- International Conference on Computer Vision (ICCV 2019, 2021)
- European Conference on Computer Vision (ECCV 2020)
- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)