Boyu Wang

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Education

2014 - current	**PhD student, Computer Science**, *Department of Computer Science* , Stony Brook University, Stony Brook, NY, Advisor: Minh Hoai Nguyen. GPA:3.95/4.00
2010 - 2014	**B.S., Computer Science**, *Department of Strengthened Cultivation* , Nanjing University of Posts and Telecommunications (NUPT), Nanjing, China. GPA:3.71/4.00
Jan. 2013 - May. 2013	**Exchange Student**, *University Semester Abroad Program, Specialized in Computer Science*, California State University, Fullerton (CSUF), CA, USA.

Research Interests

Computer Vision; Deep Learning; Action Prediction; Action Early Recognition; Video Understanding; Crowd Counting.

Experiences

Summer 2020   **Software Engineer Intern**, *Google Research*, Google.

- Video segment classification and entity localization.

Summer 2019   **Software Engineer Intern**, *Google Ads*, Google.

- Product segmentation in image ads.
- Button color suggestion for image ads.

Summer 2017   **Research Intern**, *Deep Learning and Computer Vision Group*, Intelligence Innovation (In2) Lab, Samsung Research America.

- Realtime speech activity detection for lip reading.

2015 - current   **Research Assistant**, *Computer Vision Laboratory*, Computer Science Department, Stony Brook University.

- Action early recognition and prediction.
- Image scene understanding and crowd counting.
- Xray scattering image classification and generation.

2014 - 2015   **Teaching Assistant**, *Computer Science Department*, Stony Brook University, CSE 527 Computer Vision (Graduate Course), CSE 214 Data Structures, CSE 114 Procedural and object-oriented programming.

Publication

Distribution Matching for Crowd Counting. ***Boyu Wang****, *Huidong Liu*, Dimitris Samaras and Minh Hoai.* In *Advances in Neural Information Processing Systems (NeurIPS) 2020*, (Spotlight).

Uncertainty Estimation and Sample Selection for Crowd Counting. *Viresh Ranjan,* ***Boyu Wang***, *Mubarak Shah and Minh Hoai.* In *Proceedings of the Asian Conference on Computer Vision (ACCV) 2020.*

Active Vision for Early Recognition of Human Actions. ***Boyu Wang***, *Lihan Huang and Minh Hoai.* In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020.*

Sequence-to-Segment Networks for Segment Detection. *Zijun Wei*,* ***Boyu Wang****, *Minh Hoai, Jianming Zhang, Xiaohui Shen, Zhe Lin, Radomir Mech and Dimitris Samaras.* In *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI) 2019.*

Are You Speaking: Real-Time Speech Activity Detection via Landmark Pooling Network. ***Boyu Wang*** *and Xiaolong Wang.* In *Proceedings of the IEEE Conference on Automatic Face and Gesture Recognition (FG) 2019.*

Sequence-to-Segment Networks for Segment Detection. *Zijun Wei,* ***Boyu Wang***, *Minh Hoai, Jianming Zhang, Xiaohui Shen, Zhe Lin, Radomir Mech and Dimitris Samaras.* In *Advances in Neural Information Processing Systems (NeurIPS) 2018.*

Back to the Beginning: Starting Point Detection for Early Recognition of Ongoing Human Actions. ***Boyu Wang*** *and Minh Hoai.* In *Computer Vision and Image Understanding (CVIU) 2018.*

Predicting Body Movement and Recognizing Actions: an Integrated Framework for Mutual Benefits. ***Boyu Wang*** *and Minh Hoai.* In *Proceedings of the IEEE Conference on Automatic Face and Gesture Recognition (FG) 2018.*

X-ray Scattering Image Classification Using Deep Learning. ***Boyu Wang***, *Kevin Yager, Dantong Yu, and Minh Hoai.* In *Proceedings of the IEEE Winter Conference on Applications of Computer Vision (WACV) 2017.*

Professional services

Reviewer: NeurIPS 2020, CVPR 2020, ECCV 2020, AAAI 2020, ICCV2019, CVPR 2019, ECCV 2018, ICVGIP 2018, ICVGIP 2017, SSDBM 2017

Skills

Extensive experience with: Python, Matlab, C++

Project experience with: PyTorch, Tensorflow

Selected Awards

2016 **Grace Hopper Celebration Scholarship**.

2014 **Special CS Department Chair Fellowship**, *Stony Brook University.*

2013 **The National Undergraduate Mathematical Contest in Modeling**, *The Second Prize*, China.