

# 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.

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## Research Interests

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

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## 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.

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## 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*.

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## Professional services

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

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## Skills

Extensive experience with: Python, Matlab, C++

Project experience with: PyTorch, Tensorflow

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## 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.