

WENTAO BAO

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<https://cogito2012.github.io/homepage>

EDUCATION

Rochester Institute of Technology, Rochester, NY, USA Sept. 2019 - Present

Ph.D. in Golisano College of Computing & Information Sciences

Advisors: Prof. Yu Kong and Prof. Qi Yu

Wuhan University, Wuhan, China Sept. 2016 - June 2019

M.E. in School of Remote Sensing & Information Engineering

Advisor: Prof. Zhenzhong Chen and Prof. Daiqin Yang

Overall GPA: 3.75/4.0

Wuhan University, Wuhan, China Sept. 2012 - June 2016

B.S. in School of Remote Sensing & Information Engineering

Overall GPA: 3.72/4.0

RESEARCH INTERESTS

- Computer Vision: Video Activity Prediction, Open Set Recognition, 2D/3D Object Detection.
- Machine Learning: Uncertainty Estimation, Reinforcement Learning, Bayesian Deep Learning, Multiple Instance Learning, Graph Neural Networks.
- Computational Visual Perception: Visual Saliency/Scanpath Prediction.
- Remote Sensing: Satellite/Aerial Image Analysis.

SELECTED PUBLICATIONS

1. **Wentao Bao**, Qi Yu, Yu Kong. Evidential Deep Learning for Open Set Action Recognition. International Conference on Computer Vision (**ICCV**), 2021 (**Oral**).
2. **Wentao Bao**, Qi Yu, Yu Kong. DRIVE: Deep Reinforced Accident Anticipation with Visual Explanation. International Conference on Computer Vision (**ICCV**), 2021.
3. **Wentao Bao**, Qi Yu, Yu Kong. Uncertainty-based Traffic Accident Anticipation with Spatio-Temporal Relational Learning. 28th ACM International Conference on Multimedia (**MM**), 2020.
4. Junwen Chen, **Wentao Bao**, Yu Kong. Activity-driven Weakly-Supervised Spatio-Temporal Grounding from Untrimmed Videos. 28th ACM International Conference on Multimedia (**MM**), 2020.
5. Junwen Chen, **Wentao Bao**, Yu Kong. Group Activity Prediction with Sequential Relational Anticipation Model. European Conference on Computer Vision (**ECCV**), 2020.
6. **Wentao Bao**, Qi Yu, Yu Kong. Object-Aware Centroid Voting for Monocular 3D Object Detection. IEEE/RSJ International Conference on Intelligent Robots and Systems (**IROS**), 2020.
7. Hanbin Hong, **Wentao Bao**, Yuan Hong, Yu Kong. Privacy Attributes-aware Message Passing Neural Network for Visual Privacy Attributes Classification. International Conference on Pattern Recognition (**ICPR**), 2020.
8. **Wentao Bao**, Zhenzhong Chen. Human Scanpath Prediction based on Deep Convolutional Saccadic Model. **Neurocomputing**, vol. 404, pp. 154-164, Mar. 2020. (IF: 4.438)

9. **Wentao Bao**, Bin Xu, Zhenzhong Chen. MonoFENet: Monocular 3D Object Detection with Feature Enhancement Networks. *IEEE Transactions on Image Processing (TIP)*, vol. 29, pp. 2753-2765, Nov. 2019. (IF: 9.340)
10. Daiqin Yang, **Wentao Bao**. Group Lasso based Band Selection for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters (GRSL)*, vol. 14, no. 12, pp. 2438-2442, Nov. 2017. (IF: 3.833)

WORK EXPERIENCE

1. Ph.D. intern at **Apple**, 3D Vision Team at Apple Maps, CA USA (Remote), June-August, 2021.

COMPETITIONS

1st Prize, Core Member , Salient360! Visual Attention Modeling for 360° Content.	July 2018
3rd Prize, Team Leader , The 4th National Graduate Contest on Smart-City.	Aug. 2017
Bronze Award, Team Leader , The 2nd China "Internet Plus" Competition (Hubei).	Dec. 2016
2nd Prize, Core Member , The 3rd National Graduate Contest on Smart-City.	Aug. 2016
1st Prize, Core Member , BigMM 2015 Challenge, Multiple-Camera Object Tracking.	Apr. 2015
3rd Prize, Team Leader , The 14th National "Challenge Cup" on Smart-City Track.	July 2015
3rd Prize, Core Member , The 14th National "SuperMap Cup" on GIS Contest.	Dec. 2015
Meritorious Winner, Core Member , Mathematical Contest in Modeling (MCM).	Feb. 2015
2nd Prize, Team Leader , The 13th National "SuperMap Cup" on GIS Contest.	Dec. 2014

SELECTED HONORS

Academic Innovation Award for Postgraduate Student, Wuhan University.	Dec. 2020.
Excellent Graduated Student, Wuhan University. (top 5%)	May, 2019.
China National Scholarship for graduate students,	Oct. 2018.
The First-class Academic Scholarship, Wuhan University. (top 10%)	Oct. 2017 & 2018.
Outstanding Postgraduate Student, Wuhan University. (top 10%)	Dec. 2017 & 2018.
Excellent Graduate Freshman Scholarship, Wuhan University. (top 10%)	Oct. 2016
Advanced Individual, Wuhan University.	Jan. 2016

TECH SKILLS

DL/CV Tools	PyTorch, TensorFlow, Keras, Caffe, MXNet, OpenAI Gym, OpenCV
Programing Languages	Python, Java, C/C++, MATLAB, Android, Linux Shell

ACADEMIC SERVICES

Conference Reviewer:

- ICCV (2021), CVPR (2021), ICRA (2021), ACM MM (2021 & 2020 & 2019), ICWS (2021), MFI (2020).

Journal Reviewer:

- IEEE Transactions on Image Processing (TIP).

- IEEE Robotics and Automation Letters (RA-L).
- Journal of Visual Communication and Image Representation (JVCI, Elsevier).
- Information Sciences (Elsevier).
- Journal of Measurement (Elsevier).
- Multimedia System Journal (MMSJ, Springer).
- The Computer Journal (Oxford Academic).

Memberships:

- IEEE Student Member
- ACM Student Member.

Volunteers:

- 34th AAAI Conference on Artificial Intelligence (AAAI-20), Feb. 7-12, 2020, New York, USA.