

# WENTAO BAO

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

## EDUCATION

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| <b>Rochester Institute of Technology</b> , Rochester, NY, USA<br>Ph.D. in Golisano College of Computing & Information Sciences<br>Advisor: Prof. Yu Kong and Prof. Qi Yu             | Sept. 2019 - Present   |
| <b>Wuhan University</b> , Wuhan, China<br>M.E. in School of Remote Sensing & Information Engineering<br>Advisor: Prof. Zhenzhong Chen and Prof. Daiqin Yang<br>Overall GPA: 3.75/4.0 | Sept. 2016 - June 2019 |
| <b>Wuhan University</b> , Wuhan, China<br>B.S. in School of Remote Sensing & Information Engineering<br>Overall GPA: 3.72/4.0  | Sept. 2012 - June 2016 |

## RESEARCH INTERESTS

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- Computer Vision: Activity Prediction, 2D/3D Object Detection, Video Anomaly Detection.
- Machine Learning: Reinforcement Learning, Bayesian Inference, Multiple Instance Learning, Graph Neural Networks, Lifelong Learning, Meta Learning.
- Computational Visual Perception: Visual Saliency/Scanpath Prediction.
- Remote Sensing: Satellite/Aerial Image Analysis.

## SELECTED PUBLICATIONS

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1. **Wentao Bao**, Qi Yu, Yu Kong. Uncertainty-based Traffic Accident Anticipation with Spatio-Temporal Relational Learning. 28th ACM International Conference on Multimedia (**MM**), 2020.
2. Junwen Chen, **Wentao Bao**, Yu Kong. Activity-driven Weakly-Supervised Spatio-Temporal Grounding from Untrimmed Videos. 28th ACM International Conference on Multimedia (**MM**), 2020.
3. Junwen Chen, **Wentao Bao**, Yu Kong. Group Activity Prediction with Sequential Relational Anticipation Model. European Conference on Computer Vision (**ECCV**), 2020.
4. **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.
5. 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.
6. **Wentao Bao**, Zhenzhong Chen. Human Scanpath Prediction based on Deep Convolutional Saccadic Model. **Neurocomputing**, vol. 404, pp. 154-164, Mar. 2020. (IF: 4.438)
7. **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)
8. 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)

## COMPETITIONS

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

## SELECTED HONORS

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Excellent Graduated Student, Wuhan University. (top 5%)	May, 2019.
<b>China National Scholarship</b> 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

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

## ACADEMIC SERVICES

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### Reviewers:

- 28th ACM International Conference on Multimedia (ACM MM 2020).
- 27th ACM International Conference on Multimedia (ACM MM 2019).
- IEEE Transactions on Image Processing (TIP).
- IEEE Robotics and Automation Letters (RA-L).
- Elsevier Journal of Visual Communication and Image Representation (JVCIR).
- Elsevier Journal of Measurement (Elsevier Journal).
- Multimedia System Journal(Springer MMSJ).
- The Computer Journal.

### Memberships:

- IEEE Student Member (Signal Processing Society).
- ACM Student Member.

### Volunteers:

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