

WENTAO BAO

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

EDUCATION

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

RESEARCH INTERESTS

- Computer Vision: 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. 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

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 (2020 & 2019), IEEE 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.