

GONGYANG LI

4th-year Ph.D. Candidate, Shanghai University

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<https://mathlee.github.io>

EDUCATION

- Visiting Ph.D. Student, Nanyang Technological University, Singapore 07/2021–Now
 - Major in Computer Vision
 - Advisor: Professor Weisi Lin (IEEE/IET Fellow)
- Ph.D. Student, Shanghai University, Shanghai, China 09/2016–Now
 - Successive Master-Doctor Program
 - Major in Signal and Information Processing
 - Advisor: Professor Zhi Liu
- B.S., Shanghai Normal University, Shanghai, China 09/2012–06/2016
 - Major in Communication Engineering

RESEARCH INTERESTS

Computer Vision, Deep Learning, Saliency Detection, and Image/Video Object Segmentation

AWARDS AND PRIZES

- National Scholarship for Doctoral Students, 2020
- President's Scholarship of Shanghai University, 2020
- The Baogang Scholarship, 2020
- The 13th China Graduate Electronic Design Competition (Shanghai Division), 2nd prize, 2018
- The 14th China Graduate Mathematical Modeling Contest, 3rd prize, 2017
- Shanghai Outstanding Graduates, 2016

PUBLICATIONS

Google Scholar profile: <https://scholar.google.com/citations?hl=zh-CN&user=YNq7jc8AAAAJ>

RGB-D Salient Object Detection

- **Gongyang Li**, Zhi Liu, Linwei Ye, Yang Wang, and Haibin Ling, "Cross-modal weighting network for RGB-D salient object detection," *European Conference on Computer Vision (ECCV)*, 2020.
- **Gongyang Li**, Zhi Liu, and Haibin Ling, "ICNet: Information conversion network for RGB-D based salient object detection," *IEEE Trans. on Image Processing (T-IP)*, 29:4873-4884, 2020. (IF:10.856)
- **Gongyang Li**, Zhi Liu, Minyu Chen, Zhen Bai, Weisi Lin, and Haibin Ling, "Hierarchical alternate interaction network for RGB-D salient object detection," *IEEE Trans. on Image Processing (T-IP)*, 30:3528-3542, 2021. (IF:10.856)
- Xiaofei Zhou, **Gongyang Li**, Chen Gong, Zhi Liu, and Jiyong Zhang, "Attention-guided RGBD saliency detection using appearance information," *Image and Vision Computing*, 95:103888, 2020. (IF:2.818)
- Zhen Bai, Zhi Liu, **Gongyang Li**, Linwei Ye, and Yang Wang, "Circular complement network for RGB-D salient object detection," *Neurocomputing*, 451:95-106, 2021. (IF:5.719)

Salient Object Detection in Optical Remote Sensing Images

- **Gongyang Li**, Zhi Liu, Weisi Lin, and Haibin Ling, “Multi-content complementation network for salient object detection in optical remote sensing images,” *IEEE Trans. on Geoscience and Remote Sensing (T-GRS)*, 60:1-13, 2022. (IF:5.6)
- **Gongyang Li**, Zhi Liu, Zhen Bai, Weisi Lin, and Haibin Ling, “Lightweight salient object detection in optical remote sensing images via feature correlation,” *IEEE Trans. on Geoscience and Remote Sensing (T-GRS)*, 60:1-12, 2022. (IF:5.6)
- **Gongyang Li**, Zhi Liu, Dan Zeng, Weisi Lin, and Haibin Ling, “Adjacent context coordination network for salient object detection in optical remote sensing images,” *IEEE Trans. on Cybernetics*, accepted, 2022. (IF:11.448)

Fixation-based Object Segmentation

- **Gongyang Li**, Zhi Liu, Ran Shi, Zheng Hu, Weijie Wei, Yong Wu, Mengke Huang, and Haibin Ling, “Personal fixations-based object segmentation with object localization and boundary preservation,” *IEEE Trans. on Image Processing (T-IP)*, 30:1461-1475, 2021. (IF:10.856)
- **Gongyang Li**, Zhi Liu, Ran Shi, and Weijie Wei, “Constrained fixation point based segmentation via deep neural network,” *Neurocomputing*, 368:180-187, 2019. (IF:5.719)
- Ran Shi, **Gongyang Li**, Weijie Wei, and Zhi Liu, “Fixations based personal target objects segmentation,” *ACM Multimedia Asia*, 2020.
- Ran Shi, **Gongyang Li**, Weijie Wei, Xiaofei Zhou, and Zhi Liu, “Personalized image observation behavior learning in fixation based personalized salient object segmentation,” *Neurocomputing*, 445:255-266, 2021. (IF:5.719)

Saliency-related

- Tuo Ding[#], **Gongyang Li**[#], Zhi Liu, and Yike Wang, “Cross-scale edge purification network for salient object detection of steel defect images,” *Measurement*, accepted, 2022. ([#] equal contribution) (IF:3.927)
- Zhen Bai, Zhi Liu, **Gongyang Li**, and Yang Wang, “Adaptive group-wise consistency network for co-saliency detection,” *IEEE Trans. on Multimedia (T-MM)*, accepted, 2021. (IF:6.513)
- Ziqiang Wang, Zhi Liu, **Gongyang Li**, Yang Wang, Tianhong Zhang, Lihua Xu, and Jijun Wang, “Spatio-temporal self-attention network for video saliency prediction,” *IEEE Trans. on Multimedia (T-MM)*, accepted, 2021. (IF:6.513)
- Mengke Huang, Zhi Liu, **Gongyang Li**, Xiaofei Zhou, and Olivier Le Meur, “FANet: Features adaptation network for 360° omnidirectional salient object detection,” *IEEE Signal Processing Letters (SPL)*, 27:1819-1823, 2020. (IF:3.109)
- Jingru Ren, Zhi Liu, **Gongyang Li**, Xiaofei Zhou, Cong Bai, and Guangling Sun, “Co-saliency detection using collaborative feature extraction and high-to-low feature integration,” *IEEE ICME*, 2020.
- Xiaofei Zhou, Zhi Liu, Chen Gong, **Gongyang Li**, and Mengke Huang, “Video saliency detection using deep convolutional neural networks,” *PRCV*, 2018.

Segmentation-related

- **Gongyang Li**, Zhi Liu, and Xiaofei Zhou, “Effective online refinement for video object segmentation,” *Multimedia Tools and Applications*, 78(23):33617-33631, 2019. (IF:2.757)
- Zheng Hu, Zhi Liu, **Gongyang Li**, Linwei Ye, Lei Zhou, and Yang Wang, “Weakly supervised instance segmentation using multi-stage erasing refinement and saliency-guided proposals ordering,” *Journal of Visual Communication and Image Representation*, 73:102957, 2020. (IF:2.679)

Others

- Yong Wu[#], **Gongyang Li**[#], Zhi Liu, Mengke Huang, and Yang Wang, “Gaze estimation via modulation-based adaptive network with auxiliary self-learning,” submitted to *IEEE Trans. on Circuits and Systems for Video Technology (T-CSVT)*, accepted, 2022. ([#] equal contribution) (IF: 4.685)

- Qihan Jiao, Zhi Liu, **Gongyang Li**, Linwei Ye, and Yang Wang, “Fine-grained image classification with coarse and fine labels on one-shot learning,” *IEEE ICMEW*, 2020.

TECHNICAL STRENGTHS

Computer Languages	Matlab, Python, C/C++, Latex
Frameworks	PyTorch, Caffe

SERVICES

Reviewers for IEEE T-PAMI/T-IP/T-VCG/T-NNLS/T-MM/T-CSVT/T-GRS, PR, SPL, Neurocomputing, SPIC, and JCST.