

Lv Tang, Ph.D

✉ luckybird1994@gmail.com | ☎ (+86)13951912413
🐙 Github | 🏠 Homepage | 📄 Google Scholar

🎓 EDUCATION

University of Chinese Academy of Sciences <i>Ph.D. in Computer Application Technology</i>	2021 – 2025 <i>China</i>
Nanjing University <i>M.Sc. in Computer Technology</i>	2018 – 2021 <i>China</i>
Southwest Jiaotong University <i>B.Sc. in Computer Science and Technology</i>	2014 – 2018 <i>China</i>

🔖 RESEARCH INTERESTS

Foundation Model Based Image Segmentation <i>Open-world Segmentation</i>	2023 – 2024
Salient Object Detection <i>Salient/Camouflaged Object and Image Matting</i>	2021 – 2024
Video Compression	2021 – 2024

📖 ACADEMIC IMPACT

Publications

23 papers in *CVPR, ICCV, ACMMM, AAAI, IJCAI, IJCV, T-IP, T-CSVT, T-OMM, etc.*

Citations

673 citations on Google Scholar

Reviewer

Serving as a reviewer for ICML, ICLR, AAAI, CVPR, ECCV, ICCV, ACMMM, NeurIPS, T-IP, and T-CSVT

📖 12-SELECTED PUBLICATIONS

Foundation Model Based Image Segmentation

- Boosting Vision State Space Model with Fractal Scanning. (**AAAI2025**)
H. Xiao, **Lv Tang[†]**, P. Jiang, H. Zhang, J. Chen, B. Li. (**Corresponding and Co-first author**)
- ASAM: boosting segment anything model with adversarial tuning.(**CVPR2024**)
B. Li, H. Xiao, and **Lv Tang[†]** (**Corresponding author**)
- Towards training-free open-world segmentation via image prompting foundation models. (**IJCV2024**)
Lv Tang, P. Jiang, H. Xiao, and B. Li

Salient and Camouflaged Object Detection

- CoVP: Harnessing multimodal large language models for zero-shot camouflaged object detection.(**ACMMM2024**)
Lv Tang, P.-T. Jiang, Z. Shen, H. Zhang, J. Chen, and B. Li
- From composited to real-world: Transformer-based natural image matting. (**TCSVT2024**)
Y. Wang, **Lv Tang[†]**, Y. Zhong, and B. Li (**Corresponding author**)
- Toward stable co-saliency detection and object co-segmentation. (**TIP2022**)
B. Li, **Lv Tang[†]**, S. Kuang, M. Song, and S. Ding (**Corresponding author**)

4. Re-thinking the relations in co-saliency detection. (**TCSVT2022**)
Lv Tang, B. Li, S. Kuang, M. Song, and S. Ding
5. Detecting camouflaged object in frequency domain. (**CVPR2022**)
Y. Zhong, B. Li, **Lv Tang**[†], S. Kuang, S. Wu, and S. Ding (**Co-first and Corresponding author**)
6. Disentangled high quality salient object detection. (**ICCV2021**)
Lv Tang, B. Li, Y. Zhong, S. Ding, and M. Song

Video Compression

1. UVC: An Unified Deep Video Compression Framework. (**TOMM2024**)
Lv Tang, X. Zhang and L. Zhang
2. High Efficiency Deep-learning Based Video Compression. (**TOMM2024**)
Lv Tang and X. Zhang
3. Scene Matters: Model-based Deep Video Compression. (**ICCV2023**)
Lv Tang, X. Zhang, G. Zhang, and X. Ma

SELF-SUMMARY

1. **Characteristics:** Highly self-motivated, aiming to achieve breakthrough scientific results.
2. **Academic Skills:** Proficient in English writing, familiar with Python and PyTorch framework.
3. **Collaboration:** Strong collaboration skills, leads a four-person academic team, and has guided two interns to publish high-quality papers.
4. **Future Plans:** Currently, my main research interests focus on **LVM/MLLM**. I am particularly keen on exploring how to enhance the performance of **LVM/MLLM** in a resource-friendly manner, and investigating the performance limits of **LVM/MLLM** in various tasks, with the goal of extending the performance boundaries of **LVM/MLLM**.