

Yimian Dai, PhD Student




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🌐 <https://yimiandai.work>



🐙 <https://github.com/YimianDai>

🎓 <https://scholar.google.com/citations?user=y50v6VAAAAAJ>

Education

- 2015 – 2020  **PhD, Nanjing University of Aeronautics & Astronautics** in Electronic Engineering
- 2013 – 2015  **MEng, Nanjing University of Aeronautics & Astronautics** in Electronic Engineering
- 2009 – 2013  **BEng, Nanjing University of Aeronautics & Astronautics** in Electronic Engineering

Experience

- 2018.10 – 2020.10  **Joint PhD Student**, University of Arizona, working with Prof. Kobus Barnard.
- 2018.03 – 2018.09  **Joint PhD Student**, University of Copenhagen, working with Prof. Fabian Gieseke.

Selected Publications

Conference Proceedings

- 1 **Dai, Y.**, Gieseke, F., Oehmcke, S., Wu, Y., & Barnard, K. (2021). Attentional Feature Fusion, In *IEEE Winter Conference on Applications of Computer Vision (WACV 2021)*.
- 2 **Dai, Y.**, Wu, Y., Zhou, F., & Barnard, K. (2021). Asymmetric Contextual Modulation for Infrared Small Target Detection, In *IEEE Winter Conference on Applications of Computer Vision (WACV 2021)*.
- 3 **Dai, Y.**, Oehmcke, S., Gieseke, F., Wu, Y., & Barnard, K. (2020). Attention as Activation, In *25th International Conference on Pattern Recognition (ICPR 2020)*, oral presentation.

Journal Articles

- 1 **Dai, Y.**, Wu, Y., Zhou, F., & Barnard, K. (2020). Attentional Local Contrast Networks for Infrared Small Target Detection. *Accepted by IEEE Transactions on Geoscience and Remote Sensing*.
- 2 **Dai, Y.**, & Wu, Y. (2017). Reweighted Infrared Patch-Tensor Model with Both Nonlocal and Local Priors for Single-Frame Small Target Detection. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 10(8), 3752–3767.
- 3 **Dai, Y.**, Wu, Y., Song, Y., & Guo, J. (2017). Non-Negative Infrared Patch-Image Model: Robust Target-Background Separation via Partial Sum Minimization of Singular Values. *Infrared Physics & Technology*, 81, 182–194.
- 4 **Dai, Y.**, Wu, Y., & Song, Y. (2016). Infrared Small Target and Background Separation via Column-Wise Weighted Robust Principal Component Analysis. *Infrared Physics & Technology*, 77, 421–430.
- 5 Song, Y., Wu, Y., & **Dai, Y.** (2016). A New Active Contour Remote Sensing River Image Segmentation Algorithm Inspired from the Cross Entropy. *Digital Signal Processing*, 48, 322–332.

Awards and Achievements

- 2018  **Scholarship of Joint PhD Student**, China Scholarship Council.
- 2017  **Outstanding Youth Exchange Program**, China Association for Science and Technology.
- 2014  **Hella Scholarship**, Hella Company & Nanjing University of Aeronautics and Astronautics.
-  **Award of Innovation Team**, Team Leader, Nanjing University of Aeronautics and Astronautics.
-  **Graduate Innovation Funding**, Nanjing University of Aeronautics and Astronautics.