

# Wenyang Zhang

Email: 17231149@buaa.edu.cn [Homepage](#) Phone: +86 17710611219

## Education

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**Beijing University of Aeronautics and Astronautics**

Bachelor of Science in Electrical Engineering

**China Electronics Technology Group Corporation Network Communications Research Institute**

Master of Science in Electromagnetic Field and Microwave Technology (Expected)

Beijing, China

Sep 2017 – Jun 2021

Shijiazhuang, China

Sep 2022 – Jun 2025

## Research Experience

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### Yuyuan Cup (2017 & 2018) – Robot Autonomous Control Competition

- Developed an intelligent car tracking system using a grayscale sensor, optimized with PID control.
- Designed a Bluetooth-controlled robotic arm for small object transportation.

### Research on moving object detection method based on binocular vision

Undergraduate graduation project

- Research on Traditional Moving Target Detection Methods, Feature point extraction.
- Using Mask R-CNN to detect moving objects.
- Detecting moving targets by depth of field changes.

### Reflector Antenna Panel Fitting Optimization

- Surface accuracy calculation of reflector antenna.
- Optimizing segmentation curves by particle swarm optimization.

### Reflector Antenna Gravity Compensation

- Research on Gravity Compensation of Phased Array Feed.
- Phased array feed design and parameter determination method.

## Publications

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1. W.-Y. Zhang, Y. Wu, S.-P. Niu, and S. Liu, "Reflector Antenna Deformation Compensation Based on Phased Array Feed." 14th Int. Symp. on Antennas, Propagation and EM Theory (ISAPE), Hefei, China, 2024. DOI: 10.1109/ISAPE62431.2024.10840956.
2. W.-Y. Zhang, Y. Wu, S.-W. Liu, "Optimal Design of Antenna Plate Fitting Based on Particle Swarm Optimization." (Accepted).

## Awards and Honors

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- Outstanding Student Award (School-Level), 2017.

## Technical Skills

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- Programming: Python, Matlab, C, Linux, LaTeX, GRASP.
- Machine Learning & Optimization: R-CNN, Particle Swarm Optimization (PSO).