

## BASIC INFORMATION

- **Full Name:** Jie Zhou.
- **Gender:** Male.
- **Date of Birth:** March 1, 1999.
- **Place of Birth:** Hohhot, Nei Mongol, China.
- **Passport Number:** EM8657569.

## EDUCATION

**Dept. of Electronic Engineering, Harbin Institute of Technology** Harbin, China

*Ph.D. in Information and Communication Engineering* Sept. 2022 - Present

- Advisor: Prof. Junhao Xie
- Research area: Target Detection, Statistical Signal Processing and Random Matrix Theory

**Dept. of Electronic Engineering, Harbin Institute of Technology** Harbin, China

*M.S. in Electronic Information* Sept. 2021 - Sept. 2022

- Advisor: Prof. Junhao Xie
- Research area: Signal Processing

**School of Electronic and Information Engineering, Harbin Institute of Technology**  
Harbin, China

*B.E. in Electronic Information Engineering* Aug. 2017 - Jun. 2021

## TRAVEL HISTORY

**Université Paris Nanterre, Paris, France**

*For academic exchange* Aug. 2024

**Aalto University, Helsinki, Finland**

*For academic exchange* Aug. 2024

**Katholieke Universiteit Leuven, Leuven, Belgium**

*For academic exchange* Aug. 2024

## AWARDS AND HONORS

- **Second Prize**, International Mathematics Competition powered by Huawei May 2024
- **Silver Award**, 9th China International "Internet+" Competition Aug. 2023
- **Excellent Undergraduate Thesis**, Harbin Institute of Technology Jun. 2021
- **Outstanding Graduate Award**, Harbin Institute of Technology Jun. 2021

## SKILLS

**Languages:** Mandarin (native), English.

**Programming:** Python, C++, C.

## ACADEMIC SERVICES

**Reviewers for:** *IEEE Geoscience and Remote Sensing Letters*,  
*IEEE Antennas and Wireless Propagation Letters*,  
*Elsevier Digital Signal Processing*.

- PUBLICATIONS
1. **Jie Zhou**, Junhao Xie, Jiaqi Chen. Asymptotic performance of low rank adaptive normalized matched filter test under large dimensional regime, *2025 IEEE International Radar Conference*, Paper No. 1571099367, May 5-9, 2025, Atlanta, Georgia, USA (Student Paper Award Finalist).
  2. **Jie Zhou**, Junhao Xie. Performance Analysis of Linearly Combined Order Statistics CFAR Processors in Heterogeneous Background. *IEEE Transactions on Aerospace and Electronic Systems*, vol. 60, no. 2, pp. 2428-2437, 2024.
  3. **Jie Zhou**, Junhao Xie. An Improved Quantile Estimator With Its Application in CFAR Detection. *IEEE Geoscience and Remote Sensing Letters*, vol. 20, pp. 1-5, 2023.
  4. **Jie Zhou**, Junhao Xie. Robust CFAR Detector Based on KLQ Estimator for Multiple-Target Scenario. *IEEE Transactions on Geoscience and Remote Sensing*, vol. 61, pp. 1-16, 2023.
  5. **Jie Zhou**, Junhao Xie. Robust Sliding Window CFAR Detection Based on Quantile Truncated Statistics. *IEEE Transactions on Geoscience and Remote Sensing*, vol. 60, pp. 1-23, 2022.
  6. Xingxing Liao, **Jie Zhou**, Junhao Xie. Generation of Random Sea Clutter Amplitude Sequence with Quantitative Control on Distributed Tail. *Electronics Letter*, vol. 59, no. 20, pp. 1-3, 2023.
  7. Baiqiang Zhang, **Jie Zhou**, Junhao Xie. Weighted Likelihood CFAR Detection for Weibull Background. *Digital Signal Processing*, vol. 115, pp. 1-9, 2021.
  8. Xingxing Liao, Junhao Xie, **Jie Zhou**, A flexible-tailed model for radar sea clutter amplitude based on the smoothly truncated lévy flight. *IEEE Transactions on Aerospace and Electronic Systems*, pp.1-14, 2025 (DOI: 10.1109/TAES.2025.3559043).
  9. Xingxing Liao, Junhao Xie, **Jie Zhou**. Compound Gaussian Radar Clutter Model with Positive Tempered Alpha-Stable Texture. *Arxiv: arXiv:2412.05174*, 2024.
  10. Xingxing Liao, Junhao Xie, **Jie Zhou**. A Data-Driven Optimization Method for Simulating Arbitrarily Distributed and Spatial–Temporal Correlated Radar Sea Clutter. *IEEE Transactions on Geoscience and Remote Sensing*, vol. 61, pp. 1-15, 2023.
  11. Xingxing Liao, Junhao Xie, **Jie Zhou**. Compound-Gaussian Spatial-Temporal Correlated Complex Clutter Simulation Based on a Two-Step Data-Driven Method. *IEEE Transactions on Aerospace and Electronic Systems*, vol. 59, no. 6, pp. 9512-9526, 2023.
  12. Baiqiang Zhang, Junhao Xie, **Jie Zhou**. Slow-time Randomly Missing Data Reconstruction for Skywave Over-the-horizon Radar. *2021 CIE International Conference on Radar (Radar)*, Haikou, Hainan, China, pp. 3255-3260, 2021.