

DIJIA CAI

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EDUCATION

Master of Electronic Science and technology, Fudan University (2022.09 - Expected 2025.06)
Master of Electronic Science and Technology
School of Information Science and Technology GPA: 3.3

Bachelor of Electronic Science and technology, National University of Defence Technology (2018.09 - 2022.06)
Bachelor of Electronic Science and Technology
School of Electronic Science Average score: 85.28

SKILLS

Course Skills Probability theory and mathematical statistics: 93/100
Computer System: 92/100
Artificial Intelligence: B+
English Skills IELTS: 7.0, CET4: 580, CET6
Computer Skills python, MATLAB, \LaTeX , markdown, git

INTERNSHIP

SONY, Vision Algorithm Researcher, China Software Center (CSC), Shanghai (2023.12 - 2024.06)

- Reproduce multiple sets of models in pose estimation, hand pose estimation and single image depth estimation. Investigate relative datasets.
- Modify VideoPose3D Body keypoint model to 3D hand keypoint model, get 6th mean joint error in the [codalab](#) of the [HO-3d dataset](#) result (not aligned).
- Developing 3D hand keypoint model based on existing 2D body 2D keypoint model *Trainkit*.

ACADEMIC ACTIVITY

Journal

- **D. Cai**, Z. Shi, H. Fu, H. Liu, H. Qian, Y. Sui and Y.-Q. Jin, "Global 4-D Ionospheric STEC Prediction based on DeepONet for GNSS Rays", IEEE Transactions on Geoscience and Remote Sensing (TGRS)

Conference Paper

- **D. Cai**, X. Ma, K. Xiao and S. Chai, "Design of 2GHz Interdigital Hairpin Microstrip Bandpass Filter," 2021 IEEE International Workshop on Electromagnetics: Applications and Student Innovation Competition (iWEM), Guangzhou, China, 2021, pp. 1-3, doi: 10.1109/iWEM53379.2021.9790403
- **D. Cai**, Z. Shi and H. Fu, "Regional Slant Total Electron Content Prediction Based on Deep Operator", Chinese National Symposium on Radio Propagation (CNSRP) 2023 **Oral Presentation**
- Z. Wang, **D. Cai**, H. Fu and Y. Jin, "Global Ionospheric ROTI Prediction based on DeepONet", 14th International Symposium on Antennas, Propagation and EM Theory (ISAPE) **Best Paper Award**

Patent

- CN Patent CN202310570884, H. Fu, Z. Shi, **D. Cai**, F. Xu and Y.-Q. Jin, "A Four Dimensional Estimation Method for Total Ionospheric Electron Content Based on Deep Operator Network"

AWARDS AND HONORS

National Second Prize, The National University Students Intelligent Car Race: **AI vision group** (2020)
Provincial Third Prize, National Undergraduate Electronics Design Contest (2021)
Third Prize, Huawei Developer Competition 2022 APAC: **Detection&Segmentation** (2022)
Third Prize, Huawei Wireless Communication Algorithm Competition (2023)
National Bronze Prize, China International College Students' Innovation Competition (2024)