

# CAI YUHAO

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## SUMMARY

Experienced and efficient in research works; able to effectively coordinate tasks to accomplish projects with creativities; well skilled in multiple computer programming skills, especially Python/C++ and MATLAB.



## EDUATION

- 2010.9 – 2014.6 Bachelor of Engineering: Telecommunication Engineering  
Shandong University of Science and Technology, Qingdao, China (GPA 3.46/4.0)
- 2014.9 – present Master of Science in Electrical Engineering: Signal & Image Processing  
State University of New York at Binghamton, NY, USA (GPA 3.32 / 4.0)



## EXPERIENCE

- SDUST**  
2013.9 – 2014.5 Research Assistant | The Project of the OFDM Modulation, Synchronization Algorithm and the DSP Realization of Very Low Frequency Through the Earth Communication System.
- Analyzed the propagation of single-frequency elastic waveform on simulated stratified geological models and took charge of programming design, with C++/MATLAB, in the Digital/Analog (D/A) conversion based on the Digital Processing Techniques.
- SUNY-Binghamton**  
2015.1- present Research Assistant | Digital Image Forensics
- Researched on Rotation Invariant Localization Algorithm, which stems from the Zernike Moments mathematical attribute, to deal with a huge bunch of manipulated digital images quickly and successively. Coded with Python/C++ programming skills and MATLAB to realize the mechanism, in accordance with some advanced image compression techniques, like JPEG compression algorithm.



## SKILLS

Python	★★★★☆	Project Management	★★★★☆
MATLAB/R	★★★★☆	MS Office	★★★★☆
C/C++	★★★★☆		
LINUX	★★★	语言	
MySQL	★★★	Mandarin	★★★★★
HTML/CSS	★★★	English	★★★★
NI Multisim	★★★★☆		
Research	★★★★☆		