Xiao Xia

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EDUCATION

Beihang University, Beijing, China — *Sep. 2015 – Mar. 2018*
M.Eng. in Electronic and Communication Engineering — GPA: 3.86/4.0

China Agricultural University, Beijing, China — *Sep. 2011 – Jul. 2015*
B.Eng. in Electronic and Information Engineering — GPA: 3.49/4.0 (Junior/Senior: 3.74)

- **TOEFL: 106** (R29 + L28 + S24 + W25) — *Sep. 2017*
- **GRE: 326** (V159 + Q167) + AW3.5 — *Apr. 2017*

PROJECT EXPERIENCE

Application of Deep Learning Theory in SAR Target Recognition — **Beihang University**
Graduation Thesis — *Oct. 2016 – Dec. 2017*

- Based on the multiplicative noise model of Synthetic Aperture Radar (SAR) imaging, used synthetic noise-corrupted SAR images to train a Convolutional Neural Network (CNN) for SAR image denoising.
- Proposed a model combining CNN and Support Vector Machine for SAR target recognition. Achieved excellent recognition accuracy of 99.42% on the MSTAR database. Used Python, PyTorch, and MATLAB.

Mini Smart Greenhouse Based on Microcontroller Unit — **China Agricultural University**
Science and Technology Innovation Project of Honors Program — *Apr. 2014 – May. 2015*

- Designed the circuit to connect the STC89C516 Microcontroller Unit, numerous sensors and control equipment.
- Proposed an algorithm to detect and automatically control the environmental factors in the greenhouse, including temperature, humidity, and light intensity.
- Developed a WinForm application and a website to monitor and control the greenhouse through the computer and the Internet respectively. Used C#, HTML, CSS, JavaScript and PHP.

Portable Beef Quality Classification System Based on DSP — **China Agricultural University**
National Undergraduate Students' Science and Technology Innovation Project — *Dec. 2013 – Nov. 2014*

- Used CCD vision sensor and DM642 Digital Signal Processor to develop a beef quality classification system.
- Improved Otsu algorithm to segment the rib-eye images and extract the beef marbling. Increased the accuracy by 25% than traditional manual classification.

PUBLICATION

- Xiao XIA, Yunneng YUAN, *Combination of Multi-Scale Convolutional Networks and SVM for SAR ATR*, 2018 2nd IEEE Advanced Info. Management, Comm., Electronic and Automation Control Conference. (Accepted, EI index)

AWARDS

Scholarship for Excellent Graduate Student, *Beihang University* — *2015 - 2017*
Scholarship for Academic Progress, *China Agricultural University* — *2014*
Scholarship for Excellent Student, *China Agricultural University* — 2012 - *2014*
Honorable Mention, *2014 Mathematical Contest in Modeling* — *2014*

ACTIVITIES

The member of the Computer Association — *Oct. 2011 – May. 2014*

- Held professional training in C++ Programming, Visual Studio, and Altium Designer.
- Participated in the public welfare activities such as free computer maintenance for students.

The vice minister of the Organization Department of Students' Association Union — *May. 2012 – May. 2013*

- Participated in the organization of Associations' Cultural Festival.
- Assessed monthly performance of associations.