

# HANSHI SUN

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## EDUCATION

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### Southeast University

Nanjing, China | *Sep.2019 - Jun.2023*

*Bachelor of Engineering in Electronic Science and Technology*

• **CGPA:** 3.98/4.0 | **Average Score:** 93.8/100 | **Rank:** 1<sup>st</sup>

• **Relevant Courses:** Mathematical Analysis (99), Linear Algebra (98), Fundamentals of Computer Science (97), Python and Data Visualization (99), Data Structure and Algorithm (98)

## PUBLICATION

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### [1] Arrhythmia Classifier Using Convolutional Neural Network with Adaptive Loss-aware Multi-bit Networks Quantization

Hanshi Sun, Ao Wang, Ninghao Pu, Zhiqing Li, Junguang Huang, Hao Liu, Zhi Qi

*International Conference on Artificial Intelligence and Computer Engineering, Hangzhou, China, Nov 2021*

## RESEARCH EXPERIENCE

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### Multi-Modal Multi-task Transformer on Fundus Images

Southeast University | *Oct.2021 - Present*

*UG Research Assistant/PALM Lab*

**Innovation:** proposed a multi-modal multi-task transformer for detection and classification

- applied CycleGAN to achieve unpaired fundus images translation
- realized a multi-modal multi-task transformer body with specific task heads

### Energy-efficient DNN Algorithm for ECG Classification

Southeast University | *Dec.2020 - Sep.2021*

*1st Author, paper accepted to ICAICE 2021*

**Innovation:** proposed a hardware-friendly ECGNet for arrhythmia detection:

- designed a 17-class arrhythmia classifier based on simple CNN blocks
- applied a quantization method, achieving high compression rate and low accuracy degradation

## HONORS & AWARDS

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- **National Scholarship (the highest honor for undergraduates in China)**
- Alumni Scholarship, Courses Scholarship (top 3% in specific major courses)
- Merit Student
- Exemplary Individual of Innovation and Entrepreneurship

## SKILLS & INTERESTS

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**Tools & Programming Languages:** Python, C/C++, Matlab, LaTeX, Java

**Frameworks:** Pytorch, Tensorflow

**Language:** Mandarin (Native), English (Proficient), Japanese (Conversational)

**Interests:** Badminton, Swimming