# Shi Yuchen

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## Education

Bachelor major in Integrated Circuit Design and Integrated System (honor), in Huazhong University of Science and Technology, Wuhan, China, with current weighted average **89.1/100** and GPA 3.89/4.00.    **2015-2019**

### main courses

| | | | |
|---|---|---|---|
| CMOS Analog Integrated Circuits I | 98 | Computer Organization and Architecture | 94 |
| CMOS Analog Integrated Circuits II | 98 | Digital Signal Processing | 96 |
| Fundamentals of Digital Integrated Circuits | 97 | Fundamentals of High Frequency Circuit | 99 |
| | | Signals and Linear System | 98 |

## Experiences

Undergraduate research on spectrum analysis of photoacoustic imaging, at Prof. Benpeng Zhu's, College of Optical and Electronic Information, HUST. A nation-financed project.    **Oct 2017-**
- image preprocessing: noise filter, transform and normalization
- statistical feature extraction, image discretization and reconstruction
- code optimization, refactoring and language migration from Matlab to Python

Undergraduate research on high thermal conductivity and high permittivity film, at Prof. Qiuyun Fu's, College of Optical and Electronic Information, HUST.    **Mar 2018-**
- numeric simulation on the temperature field and its evolution through time
- dynamic data visualization

Undergraduate research on hybrid-supply modulator and two-stage analog amplifiers, at Prof. Min Tan's, College of Optical and Electronic Information, HUST.    **Feb 2017-Oct 2017**
- symbolic small-signal analysis of two-stage amplifiers: transfer function and stability concerns
- schematic simulation to verify manual analysis

Volunteer as a Teaching Assistant at EF Education First Ltd.    **Jan 2018**

Summer session on *Perspectives in the Humanities*, University of California, Berkeley.    **Aug 2016**

## Awards

National College IC Design Contest, on 28-39 GHz phase-locked loop, $2^{nd}$ prize.    **Apr 2018-Aug 2018**

Mathematical Modeling Contest in Middle China, $3^{rd}$ prize.    **Apr 2018**

Advances in Academics Scholarship, College of Optical and Electronic Information, HUST, ?/?.    **Sep 2016**

## Skills

### Programming Languages

- Python, C, JavaScript
- LaTeX, TeX, HTML, CSS

### Scientific Computing in Python

- Data manipulation with Numpy, Scipy and Pandas
- Data visualization with Matplotlib
- Parallel and distributed computing

### VLSI Design

- Schematic simulation with Cadence Virtuoso
- Digital system construction and verification with Verilog on FPGAs

### Languages

- **Aug 2018** GRE 323, 4.0
- **Aug 2017** TOEFL 107
- **Aug 2013** IELTS 7.0