

Minjing Lee

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RESEARCH INTEREST

My research interest is in Analog and RF integrated circuits design. Currently, I am interested in the tunable RF front-end circuits exploiting n-path techniques. I hope to contribute to efficient and green integrated circuits and communication systems to improve the quality of life and help protect the beautiful earth I love.

EDUCATION

Shanghai Jiao Tong University

Shanghai, China

B.Eng in Microelectronics Science and Engineering, minor in Philosophy

Sep 2019 - June 2023(Expected)

- **GPA: 90.25/100, 3.87/4.3** (Ranked 4 out of 67 students)

RESEARCH EXPERIENCE

RF Front-End Circuits exploiting N-Path Filters with 3x Passive Gain

July 2022 – Present

Center for Analog/RF Integrated Circuits(CARFIC), Shanghai Jiao Tong University

Shanghai, China

- **Advisor:** Prof Xiaoming Liu and Prof Jing Jin
- Developed an N-Path Filter with 3x Passive Gain.
- Proposed a passive LNA by cascoding 3x Gain N-Path Filters to replace the conventional transformer, thus occupying less chip area than prior arts. **To be taped out with 55nm CMOS Technology and measured.**
- Proposed a gain-boosted high order N-Path filter.

Low Power Successive Approximation Register Analog-to-Digital Converter

Mar 2021 – Aug 2021

Center for Analog/RF Integrated Circuits(CARFIC), Shanghai Jiao Tong University

Shanghai, China

- **Advisor:** Prof Jing Jin
- Researched on calibration techniques for SAR ADC and dynamic amplifier design for pipelined SAR ADC.

PROJECTS

A Spice Circuit Simulator | *MR325 Introduction to Design Automation*

Sep 2022 – Present

A Wideband Blocker-Tolerant Receiver | *Center for Analog/RF Integrated Circuits*

Mar 2022 – Aug 2022

- Implemented a 0.5-2GHz 4-path mixer-first receiver with 2nd order baseband TIA in 65nm CMOS Technology.
- Completed systematic tape-out flow including schematic design, simulation, layout and post-layout verification.
- Won **1st Prize** in National Final at the 6th China College IC Competition(IEEE Cup).

AWARDS & HONORS

National First Prize, The 6th China College IC Competition(IEEE Cup)

2022

Undergraduate Excellence Scholarship, Shanghai Jiao Tong University

2021

Taiwanese Student Scholarship, Shanghai Jiao Tong University

2019, 2020, 2021

COMMUNITY & LEADERSHIP

Outdoor Association, SJTU

Dec 2021 – Present

President

Philosophy Club, SJTU

2021

Co-Founder

Baseball Team, SJTU

Sep 2020 – Present

Member

TECHNICAL SKILLS

Languages: Mandarin(Native), English

Programming: C++, C, Verilog, Spice

EDA Tools: Cadence Virtuoso, Cadence ADE