Curriculum Vitae

Yunfan Wang

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SUMMARY

PhD ECE student interested in RF and THz integrated circuits, systems, and algorithm (Advisor: David Blaauw)

EDUCATION

	University of Michigan, Ann Arbor, Ph. D., Electrical and computer engineering Tsinghua University, Beijing, China, M. S., Electronic engineering (3.8/4.0)	ng Since 08/2021 06/2021
	Tsinghua University, Beijing, China, B. S., Physics (4.0/4.0)	07/2018
HONORS & AWARDS		
	Outstanding Bachelors Thesis Award of Tsinghua University	07/2018
	Outstanding Graduates of Tsinghua University	07/2018
	Special Prize of University Students Physics Competition in China	06/2015
	National Scholarship of China	09/2015
WORK EXPERIENCES		
	Graduate Student Research Assistant (GSRA), University of Michigan	Since 08/2021
	• Michigan Integrated Circuits Laboratory (MICL) (Advisor: David Blaauw))
	Teaching assistant (TA), Tsinghua University	09/2020-02/2021
	Student intern, University of California, SanDeigo (Advisor: Peter Asbeck)	07/2017-09/2017
	Research Assistant (RA), Tsinghua University	07/2016-07/2021

PUBLICATIONS

[1] **Y. Wang**, *et al.*, "Global Localization of Energy-Constrained Miniature RF Emitters using Low Earth Orbit Satellites,". In The 21st ACM Conference on Embedded Networked Sensor Systems (SenSys '23), November 12–17, 2023, Istanbul, Turkiye.

Intelligent Microwave Ciruit and System Lab (IMCS) (Advisor: Wenhua Chen)

- [2] Chien-Wei Tseng, Zhen Feng, Zichen Fan, Hyochan An, **Yunfan Wang**, Hun-Seok Kim, David Blaauw, "A Reconfigurable Analog FIR Filter Achieving –70dB Rejection with Sharp Transition for Narrowband Receivers," 2023 IEEE Symposium on VLSI Technology and Circuits (VLSI Technology and Circuits), Kyoto, Japan, 2023, pp. 1-2.
- [3] S. Li, W. Chen, X. Li and **Y. Wang**, "A 5.1 dBm 127–162 GHz Frequency Sextupler with Broadband Compensated Transformer-Based Baluns in 22nm FD-SOI CMOS," 2022 IEEE Radio Frequency Integrated Circuits Symposium (RFIC), Denver, CO, USA, 2022, pp. 315-318.
- [4] **Y. Wang**, *et al.*, "Highly Efficient Terahertz Beam-Steerable Integrated Radiator Based on Tunable Boundary Conditions," *IEEE J. Solid-State Circuits*, vol. 57, no. 5, pp. 1314-1331, May, 2022.
- [5] X. Li, W. Chen, S. Li, **Y. Wang**, F. Huang, X. Yi, R. Han, and Z. Feng, "A high-efficiency 142-182-GHz SiGe BiCMOS power amplifier with broadband slotline-based power combining technique", *IEEE J. Solid-State Circuits*, vol. 57, no. 2, pp. 371-384, Feb. 2022.
- [6] **Y. Wang**, W. Chen, X. Li, J. Chen, L. Chen, and S. Li, "300-335 GHz highly efficient beam steerable radiator based on tunable boundary conditions", *IEEE Radio Frequency Integrated Circuits (RFIC)*, Atlanta, GA, USA, Jun. 2021.
- [7] **Y. Wang**, W. Chen, X. Li, S. Li, and P. Zhou, "305-325 GHz non-reciprocal isolator based on peak-control gain-boosting magnetless nonreciprocal metamaterials", *IEEE Radio Frequency Integrated Circuits (RFIC)*, Atlanta, GA, USA, Jun. 2021.

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- [8] X. Li, W. Chen, S. Li, **Y. Wang**, F. Huang, X. Yi, R. Han, and Z. Feng, "A high-efficiency 142-182-GHz SiGe BiCMOS power amplifier with broadband slotline-based power combining technique", *IEEE J. Solid-State Circuits*, early access, 2021.
- [9] **Y. Wang,** W. Chen, and X. Li, "A 210-GHz magnetless nonreciprocal isolator in 130-nm SiGe BiCMOS based on resistor-free unidirectional ring resonators", *IEEE Micro. Wireless Compon. Lett.*, vol. 30, pp.524427, 2020.
- [10] Y. Qiao, **Y. Wang**, and et al. "Multifunctional and high-performance electronic skin based on silver nanowires bridging graphene", Carbon, vol. 156, pp.253-260, 2020.
- [11] X. Li, W. Chen, **Y. Wang**, and Z. Feng, "A 160 GHz high output power and high efficiency power amplifier in a 130-nm SiGe BiCMOS Technology", *IEEE Radio Frequency Integrated Circuits (RFIC)*, Los Angeles, CA, USA, Jun. 2020.
- [12] **Y. Wang**, W. Chen, and X. Chen, "Highly linear and magnetless isolator based on weakly-coupled nonreciprocal metamaterials", *IEEE Trans. Microw. Theory and Techn.*, vol. 67, no. 11, 2019.
- [13] X. Li, W. Chen, **Y. Wang**, and Z. Feng, "A 180 GHz high-gain cascode power amplifier in a 130nm SiGe process", *Electronics letters*, 2019.
- [14] Y. Wei, Y. Qiao, C. Jiang, **Y. Wang**, F. Wang, M. Li, and et al, "A wearable skin-like ultra-sensitive artificial graphene throat", *ACS Nano*, vol.13, no.8, pp. 8639-8647, 2019.
- [15] Y. Qiao, Y. Wang, He Tian, M. Li, et. al, "Multilayer graphene epidermal electronic skin", ACS nano, vol. 12, no. 9, pp. 8839-8846, 2018.
- [16] **Y. Wang**, and W. Chen. "A novel design method of RF lens for long-range wireless power transmission," IEEE antenna and wireless propagate. lett. vol. 16, pp. 3159-3162, 2017.