

# Yihan Lin

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## Education Experience

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9/2020~	Ph.D. Candidate	<b>Tsinghua University</b>
	Center for Brain-Inspired Computing Research	
	Department of Precision Instrument	
9/2016~	Undergraduate student (B.S. degree)   <b>GPA: 3.85/4</b>	<b>Tsinghua University</b>
7/2020	Major in Instruments Science and Technology	
	Department of Precision Instrument <b>Rank: 2/62</b>	
9/2018~	Minor Degree in CS   <b>GPA: 3.91/4</b>	<b>Tsinghua University</b>
7/2020	Department of Computer Science and Technology	

## Research Interests

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- Brain-inspired Learning Algorithms
- Neuromorphic Vision Sensor
- Low-level Computer Vision

## Publications

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1. Yang Z<sup>†</sup>, Wang T<sup>†</sup>, **Lin Y<sup>†</sup>**, et al, and Luping Shi, A Vision Sensor Chip with Complementary Pathways for Open-world Sensing, *Nature*, March 2024, Accepted. (IF: 64.8, Q1)
2. **Lin Y**, et al. "Rethinking Pretraining as a Bridge From ANNs to SNNs." *IEEE Transactions on Neural Networks and Learning Systems*, Early Access, 2022. (IF: 10.4, Q1)
3. **Lin Y<sup>†</sup>**, Sun J<sup>†</sup>, et al., "Spatiotemporal Input Control: Leveraging Temporal Variation in Network Dynamics," in *IEEE/CAA Journal of Automatica Sinica*, vol. 9, no. 4, pp. 635-651, April 2022. (IF: 11.8, Q1)
4. **Lin Y**, Ding W, Qiang S, et al. ES-ImageNet: A Million Event-Stream Classification Dataset for Spiking Neural Networks. *Frontiers in Neuroscience*, 2021: 1546. (IF: 4.3 Q2)
5. Wu Z, Zhang H, **Lin Y**. et al. LIAF-Net: Leaky Integrate and Analog Fire Network for

Lightweight and Efficient Spatiotemporal Information Processing. 2021, *IEEE Transactions on Neural Networks and Learning Systems*, PP(99):1-14. (IF: 10.4, Q1)

## Work Experience

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8/2021~now Intern ISP engineer in Lynxi co., Beijing.  
7/2018~now Research Assistant of CBICR in THU.  
6/2023~8/2023 Intern computer vision algorithm engineer in Yealink Co., Xiamen.  
9/2020~2/2021 Teaching Assistant for the class *Computer principle and Application*.  
7/2019~9/2019 Research Assistant of IoF laboratory in NTU.

## Social Activities

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9/2019~6/2020 Chairman of Student Association for science and technology of DPI, Tsinghua University  
9/2018~6/2019 Vice Chairman of Student Association for science and technology of DPI, Tsinghua University.  
1/2018~2/2018 Team leader of 'Coal to Gas' research team in Wangdu, Hebei Province, P. R. China  
9/2017~6/2018 Director of the office of Fujian Cultural Exchange Association of Tsinghua University.  
1/2018~2/2018 Team leader of research team of targeted poverty alleviation in Ninghua, Fujian Province, P. R, China.

## Honors & Awards

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10/2023 Scholarship for Excellence in Social Activitiy, THU  
10/2023 Comprehensive first-class scholarship for PhD studentss, THU  
10/2022 Comprehensive first-class scholarship for PhD Candidates, THU  
10/2021 Comprehensive second-class scholarship for PhD students, THU  
6/2020 Scholarship for future scholars (**Top 3%**), THU  
6/2020 Outstanding graduates of Beijing  
6/2020 Outstanding graduates of Tsinghua University (**Top 2%**), THU  
6/2020 Outstanding contribution award for graduates of Department of Precision Instrument, THU

10/2019	Scholarship for Excellent Student work , THU
10/2019	XCMG scholarship ( <b>Top 1%</b> ), THU
10/2019	Scholarship for Comprehensive Excellence , THU
12/2018	Second prize of HuaLuoGeng cup mathematical modeling contest of Tsinghua University
10/2018	Science and Technology Innovation Excellence Award, THU
10/2018	National scholarship ( <b>Top 2%</b> )
07/2018	Second prize of the 34th national optoelectronic Design Competition
10/2017	Scholarship for Social practice Excellence , THU
10/2017	Scholarship for Volunteer public welfare Excellence , THU
10/2017	Scholarship for Comprehensive Excellence , THU

## Certificates and Skills

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<b>Language</b>	English (CET4/CET6)
<b>Computer</b>	Python and Deep Learning Frameworks (Pytorch, SpikingJelly, For data science)
	Java, C/C++ (For software engineering, testing)
	Maintenance and network safety on Ubuntu Server operation system