

# Yihan Lin



(+86)188-0130-2019

linyih20@mails.tsinghua.edu.cn

WeChat ID: ordinarabbit

github: [github.com/lyh983012](https://github.com/lyh983012)

## Education

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

## Research Interests

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- Spiking Neuron Network
- Complex System Control
- Low Level Computer Vision
- Neuromorphic Vision Sensor

## Publications

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1. **Lin Y**, 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, doi: 10.1109/JAS.2022.105455.
2. **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.
3. 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*.
4. Yao M, Gao H, Zhao G, Wang D, **Lin Y**, et.al. Temporal-wise Attention Spiking Neural Networks for Event Streams Classification. *IEEE International Conference on Computer Vision 2021 (ICCV2021) poster*.

5. **Lin Y**, et al. "Rethinking Pretraining as a Bridge From ANNs to SNNs." *IEEE Transactions on Neural Networks and Learning Systems* (2022).
6. Ma S, ..., **Lin Y**(14<sup>th</sup>), et al. ,Neuromorphic computing chip with spatiotemporal elasticity for multi-intelligent-tasking robots. *Sci. Robot.*7, eabk2948(2022).

## Work Experience

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

## Extracurricular Activities

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- 9/2019~6/2020 Chairman of Student Association for science and technology of DPI, Tsinghua University
- Organized the 1st Tsinghua University mechanical and electrical design competition.
  - Participated in organizing student science exhibition of Tsinghua University.
- 9/2016~6/2020 Student Volunteer in Tsinghua University
- Letter exchange activities with middle school students in poor areas.
  - Tsinghua University "love alma mater" volunteer lecture.
  - 'Pilot' volunteer service group.
- 9/2018~6/2019 Vice Chairman of Student Association for science and technology of DPI, Tsinghua University.
- 1/2018~2/2018 Team leader of research team of 'coal to gas' in Wangdu, Hebei Province, P. R. China (One team of study and research groups of the Communist Youth League Committee of Tsinghua University).
- 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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10/2022	Comprehensive first-class scholarship for PhD students
10/2021	Comprehensive second-class scholarship for PhD students
6/2020	Scholarship for future scholars
6/2020	Outstanding graduates of Beijing
6/2020	Outstanding graduates of Tsinghua University
6/2020	Outstanding contribution award for graduates of Department of Precision Instrument, Tsinghua
10/2019	Award for Excellent Social work
10/2019	XCMG scholarship (one of Top scholarship in THU)
10/2019	Comprehensive Excellence Award
12/2018	Second prize of HuaLuoGeng cup mathematical modeling contest of Tsinghua University
10/2018	Science and Technology Innovation Excellence Award
10/2018	National scholarship
07/2018	Second prize of the 34th national optoelectronic Design Competition
10/2017	Social practice Excellence Award
10/2017	Volunteer public welfare Excellence Award
10/2017	Comprehensive Excellence Award

## 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