**Yihan Lin**

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| (+86)188-0130-2019 | linyh20@mails.tsinghua.edu.cn | WeChat ID: ordinarabbit |
|  |  | github: github.com/lyh983012 |

**Education**

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

**Research Interests**

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|  | * Spiking Neuron Network |  |
|  | * Complex System Control |  |
|  | * Low Level Computer Vision |  |
|  | * Hardware for Artificial Intelligence |  |

**Publications**

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| 1. Yihan Lin 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. Zhenzhi Wu, Hewei Zhang, Yihan, Lin. 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, Man, Gao, Huanhuan, Zhao, Guangshe, Wang, Dingheng, Lin, Yihan, et.al. Temporal-wise Attention Spiking Neural Networks for Event Streams Classification. IEEE International Conference on Computer Vision 2021 (ICCV2021) poster.  5. Yihan Lin, Yifan Hu, Shijie Ma, Guoqi Li, Dongjie Yu, Rethinking Pretraining as a Bridge from ANNs to SNNs, arXiv preprint arXiv:2203.01158 | |
| **Work Experience** | |
| 7/2018~ | 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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| 10/2021 | 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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| **Language** | English (CET4/CET6) |
| **Computer** | Python and Deep Learning Frameworks (For data science)  Java, C++ (For software engineering)  Computation Server operation and maintenance |