

# Li Yu

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: CHINA | 11 September 1994  
PHONE: +852 97941602  
EMAIL: [yu.li.sallylee@gmail.com](mailto:yu.li.sallylee@gmail.com); [yuli@cse.cuhk.edu.hk](mailto:yuli@cse.cuhk.edu.hk)  
OTHERS: [Google scholar](#)

## EDUCATION

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2017-Present PhD Study in COMPUTER SCIENCE AND ENGINEERING,  
**The Chinese University of Hong Kong (CUHK)**  
Research Interest: AI Security and AI testing

2016-2017 Master Study in FACULTY OF ENGINEERING TECHNOLOGY,  
**Katholieke Universiteit Leuven (KU Leuven)**  
Major: Intelligent Electronics  
Graduated with "Cum Laude"

2014-2016 Undergraduate Study in FACULTY OF ENGINEERING TECHNOLOGY,  
**Katholieke Universiteit Leuven (KU Leuven)**  
Major: Electronic Engineering  
Rank: 1st in major Electronic Engineering  
Graduated with "Cum Laude"

2012-2014 Undergraduate Study in SCHOOL OF ELECTRONIC ENGINEERING,  
**University of Electronic Science and Technology of China (UESTC)**  
Major: Electronic Engineering  
GPA: 3.86/4.0 Rank: Top 3%  
Graduated with honor

## EXPERIENCE

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APRIL 2021 - NOW Research Intern at [Huawei Noah Ark Lab](#) (Shenzhen, China)  
Focus on AI testing and debugging.

JULY 2019 - JAN 2021 Research Intern at [Alibaba Group](#) (Shenzhen, China)  
To improve the memory failure prediction for large scale data-centers.

JULY 2016 - MAY 2017 Master Thesis at [IMEC](#) (Leuven, Belgium)  
Research on IEEE Std. P1838's flexible parallel port and its specification.

## PUBLICATIONS

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- 2021 **TestRank: Bringing Order into Unlabeled Test Instances for Deep Learning Tasks**  
Yu Li, Min Li, Qiuxia Lai, Yannan Liu, and Qiang Xu.  
under submission, preprint: <https://arxiv.org/abs/2105.10113>
- 2021 **Information Bottleneck Approach to Spatial Attention Learning**  
Qiuxia Lai, Yu Li, Ailing Zeng, Minhao Liu, Hanqiu Sun, and Qiang Xu.  
To be presented in IJCAI'21
- 2021 **On Workload-Aware DRAM Failure Prediction in Large-Scale Data Centers**  
Xingyi Wang, Yu Li, Yiquan Chen, et. al.  
2021 IEEE 39th VLSI Test Symposium (VTS)
- 2021 **AppealNet: An Efficient and Highly-Accurate Edge/Cloud Collaborative Architecture for DNN Inference**  
Min Li, Yu Li, Ye Tian, Li Jiang, and Qiang Xu  
To be presented in 2021 Design Automation Conference (DAC'21)
- 2020 **DeepDyve: Dynamic Verification for Deep Neural Networks**  
Yu Li, Min Li, Bo Luo, Ye Tian, and Qiang Xu  
2020 ACM SIGSAC Conference on Computer and Communications Security (CCS'20)
- 2020 **On Configurable Defense against Adversarial Example Attacks**  
Bo Luo, Min Li, Yu Li, and Qiang Xu  
2020 on Great Lakes Symposium on VLSI (GLSVLSI'20)
- 2019 **D2NN: a fine-grained dual modular redundancy framework for deep neural networks**  
Yu Li, Yannan Liu, Min Li, Ye Tian, Bo Luo, and Qiang Xu  
2019 Annual Computer Security Applications Conference (ACSAC'19)
- 2019 **On functional test generation for deep neural network IPs**  
Bo Luo, Yu Li, Lingxiao Wei, and Qiang Xu  
2019 Design, Automation & Test in Europe Conference & Exhibition (DATE'19)
- 2018 **IEEE Std P1838's flexible parallel port and its specification with Google's protocol buffers**  
Yu Li, M Shao, H Jiao, A Cron, S Bhatia, EJ Marinissen  
2018 IEEE 23rd European Test Symposium (ETS'18)
- 2018 **I Know What You See: Power Side-Channel Attack on Convolutional Neural Network Accelerators**  
Lingxiao Wei, Yannan Liu, Bo Luo, Yu Li, Qiang Xu  
2018 Annual Computer Security Applications Conference (ACSAC'18)

## SCHOLARSHIPS AND CERTIFICATES

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NOV. 2019	Student Travel Grant offered by ACSAC'19
NOV. 2018	Student Travel Grant offered by ACSAC'18
JUN. 2017-present	Postgraduate Scholarship (Issued By CUHK)
MAY. 2015	Excellent execution of the new product launch-management game 2014-2015 (Issued By KU Leuven)
DEC. 2013-2014	National Endeavor Fellowship (Issued by Chinese Ministry of Education)
SEP. 2014-2017	Hongzhi Scholarship (Issued by KU Leuven)
MAR. 2014	Successfully applied "National Undergraduate Training Programs for Innovation and Entrepreneurship" (Issued by Chinese Ministry of Education)

## TEACHING ASSISTANT

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CSCI3250 Computers and Society (with Prof. CHAU Chuck-jee)  
CENG2400 Embedded System Design (with Prof. Qiang Xu)  
ENGG1100 Introduction to Engineering Design (with Prof. Anthony SUM)

## LANGUAGES

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CHINESE: Mother-tongue  
ENGLISH: Fluent