

# LI ZIHAO

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The Hong Kong Polytechnic University, Hong Kong

## EDUCATION

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<b>PhD Candidate</b>   <i>Department of Computing</i> The Hong Kong Polytechnic University	2021 – Present
<b>Master Degree</b>   <i>Cyberspace Security</i> University of Electronic Science and Technology of China	2017 – 2020
<b>Bachelor Degree</b>   <i>Information Security</i> University of Electronic Science and Technology of China	2013 – 2017

## RESEARCH INTERESTS

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**Blockchain, Smart Contract Analysis, Network Analysis, Software Engineering**

## AWARDS

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- Best Paper Nominee**, 13th International Symposium on Empirical Software Engineering and Measurement (ESEM), 2019.
- Best Paper Award**, IEEE International Conference on Computer Communications (INFOCOM), 2018.
- Best Paper on Blockchain**, China Computer Federation (CCF) Technical Committee on Block Chain, 2018.
- Best Paper Award**, 13th International Conference on Information Security Practice and Experience (ISPEC), 2017.

## PUBLICATIONS

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- T. Chen, **Z. Li**, X. Luo, X. Wang, T. Wang, Z. He, K. Fang, Y. Zhang, H. Zhu, H. Li, Y. Cheng, and X. Zhang, **"SigRec: Automatic Recovery of Function Signatures in Smart Contracts"**, IEEE Transactions on Software Engineering (TSE), 2021 (also appear at the Journal First Session of the 36th IEEE/ACM International Conference on Automated Software Engineering).
- T. Chen, Y. Zhu, **Z. Li**, J. Chen, X. Li, X. Luo, X. Lin, and X. Zhang, **"Understanding Ethereum via Graph Analysis"**, Proc. of IEEE International Conference on Computer Communications (INFOCOM), Honolulu, USA, April 2018. (**Best Paper Award**)
- T. Chen, **Z. Li**, H. Zhou, J. Chen, X. Luo, X. Li, and X. Zhang, **"Towards Saving Money in Using Smart Contracts"**, Proc. of 40th IEEE International Conference on Software Engineering (ICSE) (NIER), pp. 81-84, Gothenburg, Sweden, May 2018.
- T. Chen, **Z. Li**, Y. Zhu, J. Chen, X. Luo, J. Lui, X. Lin, and X. Zhang, **"Understanding Ethereum via Graph Analysis"**, ACM Transactions on Internet Technology (TOIT), 2020.
- T. Chen, Y. Zhang, **Z. Li**, X. Luo, T. Wang, R. Cao, X. Xiao, and X. Zhang, **"TokenScope: Automatically Detecting Inconsistent Behaviors of Cryptocurrency Tokens in Ethereum"**, Proc. of the 26th ACM Conference on Computer and Communications Security (CCS), London, UK, November 2019.
- T. Chen, **Z. Li**, Y. Zhang, X. Luo, T. Wang, T. Hu, X. Xiao, D. Wang, J. Huang, and X. Zhang, **"A Large-Scale Empirical Study on Control Flow Identification of Smart Contracts"**, Proc. of the International Symposium on Empirical Software Engineering and Measurement (ESEM), Porto de Galinhas, Brazil, September 2019. (**Best Paper Nominee**)

T. Chen, **Z. Li**, Y. Zhang, X. Luo, A. Chen, K. Yang, B. Hu, T. Zhu, S. Deng, T. Hu, J. Chen, and X. Zhang, **"DataEther: Data Exploration Framework For Ethereum"**, Proc. of the 39th IEEE International Conference on Distributed Computing Systems (ICDCS), Dallas, USA, July 2019.

T. Chen, Y. Feng, **Z. Li**, H. Zhou, X. Luo, X. Li, X. Xiao, J. Chen and X. Zhang, **"GasChecker: Scalable Analysis for Discovering Gas-Inefficient Smart Contracts"**, IEEE Transactions on Emerging Topics in Computing (TETC), 2020.

T. Chen, X. Li, Y. Wang, J. Chen, **Z. Li**, X. Luo, M. Au, and X. Zhang, **"An Adaptive Gas Cost Mechanism for Ethereum to Defend Against Under-Priced DoS Attacks"**, Proc. of 13th International Conference on Information Security Practice and Experience (ISPEC), pp. 3-24, Melbourne, Australia, December 2017. **(Best Paper Award)**