

## Yongzhe Zhang

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| CONTACT INFORMATION | Programming Research Lab<br>National Institute of Informatics<br>2-1-2 Hitotsubashi, Chiyoda-ku<br>Tokyo, 101-8430, Japan  | Office Phone: (03) 4212-2611<br>E-mail: <a href="mailto:zyz915@nii.ac.jp">zyz915@nii.ac.jp</a><br>Website: <a href="https://zyz915.github.io/">https://zyz915.github.io/</a> |
| RESEARCH INTERESTS  | Distributed Computing, Graph Processing, Functional Programming  |  |
| EDUCATION           | <b>SOKENDAI (The Graduate University of Advanced Studies)</b> , Japan<br>Ph.D. student in Department of Informatics (Oct. 2015 to present) <ul style="list-style-type: none"><li>• Research Topic: Programming Model for Distributed Graph Processing</li><li>• Advisor: Prof. Zhenjiang Hu</li></ul> <b>Shanghai Jiao Tong University</b> , China<br>MSc in Computer Science and Technology (Sept. 2013 to June 2015) <ul style="list-style-type: none"><li>• Graduate Thesis: <i>TIP-code: A Three Independent Parity Code to Tolerate Triple Disk Failures with Optimal Update Complexity</i></li><li>• Advisor: Dr. Chentao Wu, Prof. Minyi Guo</li></ul> BSc in Computer Science and Technology (Sept. 2009 to June 2013) <ul style="list-style-type: none"><li>• Dissertation: <i>Price-oriented Product Recommendation in New Categories</i></li><li>• Advisor: Prof. Yong Yu</li></ul>   |  |
| RESEARCH EXPERIENCE | <b>Programming Research Lab, National Institute of Informatics</b><br>Oct. 2015 to present <ul style="list-style-type: none"><li>• Distributed computing, Graph processing, Functional Programming</li></ul> <b>Embedded and Pervasive Computing Center, Shanghai Jiao Tong University</b><br>Sept. 2013 to Aug. 2015 <ul style="list-style-type: none"><li>• Erasure codes and reliable storage systems</li></ul> <b>Mobile and Sensing Systems Group, Microsoft Research Asia</b><br>Aug. 2012 to Jan. 2013 <ul style="list-style-type: none"><li>• Indoor localization and Windows app analysis</li></ul> <b>Data and Knowledge Management Lab, Shanghai Jiao Tong University</b><br>July 2011 to June 2012 <ul style="list-style-type: none"><li>• Computer vision and machine learning</li></ul>  |  |
| PUBLICATIONS        | <b>Yongzhe Zhang</b> , Zhenjiang Hu. Composing Optimization Techniques for Vertex-Centric Graph Processing via Communication Channels. <i>The 33rd International Conference on Parallel and Distributed Processing Symposium (IPDPS'19)</i><br><b>Yongzhe Zhang</b> , Hsiang-Shang Ko, Zhenjiang Hu. Palgol: A High-Level DSL for Vertex-Centric Graph Processing with Remote Access. <i>The 15th Asian Symposium on Programming Languages and Systems (APLAS'17)</i><br>Zirun Zhu, <b>Yongzhe Zhang</b> , Hsiang-Shang Ko, Pedro Martines, Joao Saraiva and Zhenjiang Hu. Parsing and Reflective Printing, Bidirectionally. <i>The 9th International Conference on Software Language Engineering (SLE'16)</i><br><b>Yongzhe Zhang</b> , Chentao Wu, Jie Li and Minyi Guo. PCM: A Parity-Check Matrix Based Approach to Improve Decoding Performance of XOR-based Erasure Codes. <i>The 34th International Symposium on Reliable Distributed Systems (SRDS'15)</i> . |  |

**Yongzhe Zhang**, Chentao Wu, Jie Li and Minyi Guo. TIP-code: A Three Independent Parity Code to Tolerate Triple Disk Failures with Optimal Update Complexity. *The 45th International Conference on Dependable Systems and Networks (DSN'15)*.

ACHIEVEMENTS

ACM International Collegiate Programming Contest:

- 2nd place of Jakarta Site, 4th place of Chengdu Site (2010, team: Halo)
- 2nd place of Shanghai Site, 4th place of Phuket Site (2009, team: TriPAL)

TECHNICAL  
SKILLS

Programming Languages:

- C++, C, python