

Lingfan Yu

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Education

- 2016.9 - Present** Computer Science PhD Program, New York University, United States
Advised by Professor Jinyang Li
- 2012.9 - 2016.6** Bachelor of Computer Science and Technology, Nanjing University, China
- 2015.9 - 2016.4** University Exchange Program, University of Waterloo, Canada

Publications

- Pin Gao, **Lingfan Yu**, Yongwei Wu, Jinyang Li. Low Latency RNN Inference with Cellular Batching (Eurosys 2018). [paper, talk, slides]
- Cheng Tan, **Lingfan Yu**, Joshua B. Leners, Michael Walfish. The Efficient Server Audit Problem, Deduplicated Re-execution, and the Web (SOSP 2017, Best paper award). [paper]

Research Projects

- **Deep Graph Library** **2018.5 - Present**
 - Ongoing project on building machine learning framework on graph-structured data
 - Provides intuitive and expressive interfaces and comprehensive system optimizations to make learning on graphs easy and efficient
 - Compatible with existing popular tensor frameworks (like PyTorch, MXNet)
 - Released as an open source project (homepage)
- **Low Latency RNN Inference System** **2017.5 - 2018.4**
 - Research project to build inference system for Recurrent Neural Network
 - Provides both low latency and high throughput
 - Published as a conference paper at Eurosys 2018
- **Audit Web Application By Efficient Re-execution** **2016.9 - 2017.4**
 - Research project on verifiable computation
 - Logs hints during online execution and uses techniques like SIMD-on-demand to speed up re-execution of computations
 - Published as a conference paper at SOSP 2017 (Best paper award)

Work Experience

- **Quantum Cube Corporation, Waterloo, Canada (part-time job)** **2015.9 - 2015.12**
 - Company focus is commodity futures trading and developing research system for future trading analysis and automation
 - Designed and implemented backend system to provide support for the project