FinBench Panel @ LDBC 16th TUC

Host: Heng Lin (on behalf of Shipeng Qi)

Together with: Yuanyuan Tian, Ricky Sun, Gábor Szárnyas, Longbin Lai

Panel Agenda

- Panelists ~10 min

- Topic Discussion ~ 25 min

- Q&A ~ 15 min

Panelists

Heng Lin

- Senior engineer in Ant Group
- Obtained PhD. degree from Tsinghua University
- Leader of TuGraph DB (open source)
- Graph500 BFS No.2 (Sunway TaihuLight based)
- Largest Graph computing system (70 trillion edges)

Yuanyuan Tian

- Principal Scientist at Microsoft Gray Systems Lab
- Obtained PhD. degree from University of Michigan
- ACM Distinguished Member
- 2 books and 40+ articles published with 5100+ citations
- Associate editor for VLDB Journal, PVLDB, and SIGMOD
- SIGMOD 2018 Research Highlight Award, EDBT 2018 Best Paper Award…

Ricky Sun

- CEO of Ultipa, as the 4th venture in his serial entrepreneur career
- High-performance storage and computing system expert
- Formally CTO of EMC Asia R&D center, CEO of Allhistory
- Committee member of Harvard Arts Museums Asian Arts Curatorial Committee.

Gábor Szárnyas

- Post-doctoral researcher at CWI
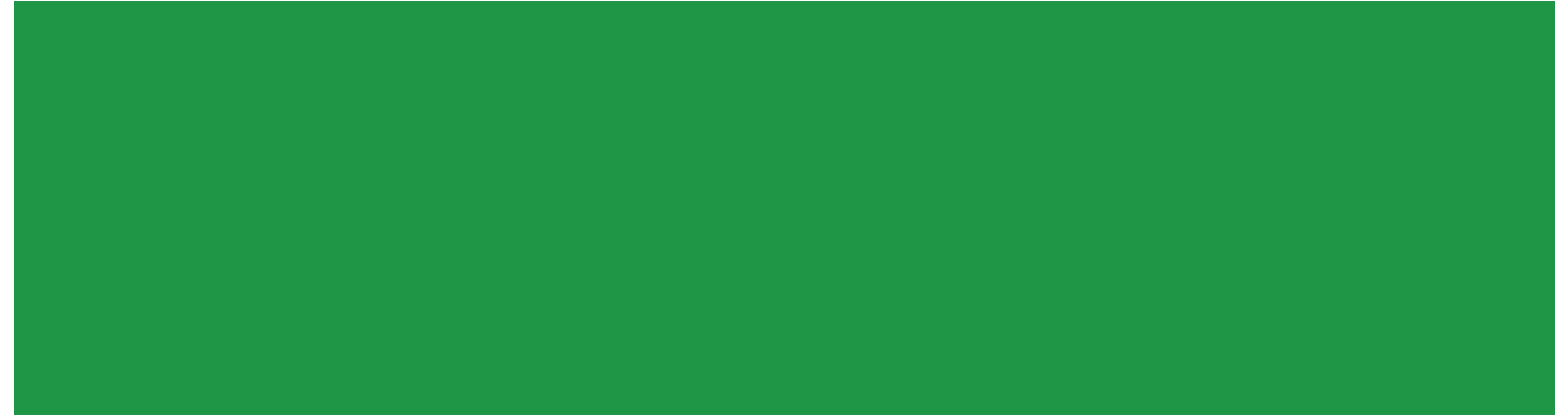
- LDBC SNB Task Force leader

- LDBC advisor

Longbin (Robin) Lai

- Staff engineer at Alibaba Damo Academy

- A leader in GraphScope

  (https://github.com/alibaba/GraphScope)

- Formalization and system architecture towards

  graph query optimization

- Obtained PhD. degree in UNSW

Topic Discussion

Topics

- Topic 1: The status quo of GMDBSs in the industry

- Topic 2: The LDBC FinBench and other benchmarks

Status quo of GDBMS

1.1 What are the difficulties when building a GDBMS?

1.2 Architectures, strengths, weakness of current GDBMSs.

1.3 How do the users and vendors think of different query languages?

LDBC Benchmarks

2.1 What are the bottlenecks of GDBMSs? What kinds of features do you think current graph benchmarks should support?

2.2 What role does GDBMS play in industry, especially the financial industry compared to RDBMS?

2.3 What are the differences between FinBench and SNB? E.g., Read-Write Query, the Truncation?

Q & A

LDBC

*The graph & RDF
benchmark reference*