陳亮錡 Liang-Chi Chen



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https://chi-0828.github.io/LCCHEN.github.io/

EDUCATION

- National Cheng Kung University (NCKU)
 - MS, Computer Science and Information Engineering
 - Sept. 2022 present
- National Chung Cheng University (CCU)
 - BS, Computer Science and Information Engineering
 - o Sept. 2018 Jun. 2022

RELEVANT EXPERIENCE

- Research intern
 - Institute of Information Science, Academia Sinica. | 2022/07 - 2022/08 (Summer)
 - Storage, Non-volatile memory, Computer Architecture / System
- · Software engineering intern
 - Patere | 2021/07 2021/08 (Summer)
 - Computer vision application, DL, Python, C++, Tensorflow, OpenCV

RESEARCH INTEREST

- Embedded system, memory/storage system
- Processing-in-memory

PROJECT

- Sequencing on processing-in-memory system
 - Running state-of-the-art RNA quantification software "kallisto" on UPMEM DPU system
 - https://github.com/chi-0828/RNA-Abundance-Quantification-on-UPMEM
- Sanitization design on NAND flash
 - SSD simulator implementation in C++
- longphase
 - Assist in implementation of phasing software
 - Parsing module and multi-threading parallelism
 - Build configuration tool
 - https://github.com/twolinin/longphase

AWARD

 Presidential award (rank 1 in class), second semester of the 108 academic year in CCU CSIE

PUBLICATION

Conference papers:

- 1. Efficient Sanitization Design for LSM-based Key-Value Store over 3D MLC NAND Flash
 Liang-Chi Chen, Shu-Qi Yu, Chien-Chung Ho, Wei-Chen Wang, Yung-Chun Li
 The 38th ACM/SIGAPP Symposium On Applied Computing (SAC), March 27-31, 2023. (to be appear)
- 2. RNA-seq Quantification on Processing in memory Architecture: Observation and Characterization

 <u>Liang-Chi Chen</u>, Shu-Qi Yu, Chien-Chung Ho, Yuan-Hao Chang, Da-Wei Chang, Wei-Chen Wang, Yu-Ming Chang
 The 11th IEEE Non-Volatile Memory Systems and Applications Symposium (NVMSA), August 23-25, 2022
 https://doi.org/10.1109/NVMSA56066.2022.00014

Journal papers:

1. LongPhase: an ultra-fast chromosome-scale phasing algorithm for small and large variantsJyun-Hong Lin, Liang-Chi Chen, Shu-Chi Yu, Yao-Ting Huang,
Bioinformatics, 2022, 38.7: 1816-1822.
https://doi.org/10.1093/bioinformatics/btac058