Peking University

XU Pengcheng *Team leader*

Junior, School of EECS
Major: Computer Science
Skills: SysOps, Embedded, Networking
Focus: HPL, HPCG, IO500

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CHENG Yihua

- Senior, Yuanpei College
- **Major:** Computer Science
- **Skills:** Networking, HPC, GPU Programming
- **Focus:** VPIC

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WU Yifan

- Senior, Yuanpei College
- **Major:** Computer Science
- **Skills:** Scientific Computing, Cryptography
- **Focus**: Reproducibility task

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北京大学
PEKING UNIVERSITY

FAN Zejia

- Junior, School of EECS
- **Major:** Computer Science
- **Skills:** Deep Learning
- **Focus**: Reproducibility task

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北京大学
PEKING UNIVERSITY

MAI Jing

- Junior, School of EECS
- **Major:** Computer Science
- **Skills:** FPGA, ACM/ICPC, Algorithms
- **Focus:** VPIC

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YAN Yuxuan

- Junior, School of physics
- **Major:** High Energy Physics
- **Skills:** Numerical Methods
- **Focus**: SST

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LEI Yuntong

- Junior, School of EECS
- **Major:** Computer Science
- **Skills:** Deep Learning
- **Focus**: SST

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Prof. LIANG Yun *Advisor*

- **Research Interest**: High Performance Computing, Compilation and Architecture.
- **Publication** in Top-tier conferences: HPCA, ISCA, MICRO, FPGA, DAC, etc.

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FU Zhenxin *Advisor*

- **Research Interest**: Natural Language Processing.
- **Publication** in Top-tier conferences: AAAI, IJCAI, CIKM, EMNLP, etc.

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About our members

- *Passionate members* from *different departments*

  e.g. EECS, Yuanpei College, School of Physics

- *Different focus*

  e.g. Parallel Computing, System Administration, Power Management and Computer Networking.

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Teaching each other

- *Regular technical sessions*
  Team members pick topics on HPC and share their knowledge

Responsibility for applications

- *Making clear everyone's focus*
  Each member has a main focus application
  Responsible for background, building, bottlenecks and optimization methods

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Growth through practice

- *Hands-on* for HPC topics
  e.g. program compiling, profiling, MPI and CUDA

Passing it on

- *GitHub organization*
  For hosting code, discussion slides, documents from previous competition and other related files for future members

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Working with sponsors

- *Extensive support*

  From our sponsors Inspur, Sitonholy and NVIDIA

Be creative

- *Well-designed hardware* and *software*

  Dare to use new technology

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Profiling

- *Finding hotspots and bottlenecks*
  - Intel VTune and NVIDIA Visual Profiler

Compiling

- *Target-specific compiler options*
  Generate optimal code for our architecture

Optimization

- *Rewrite badly-written code*

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