Xiaoning Yue

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Education & Academic Experience

08/2010 ~06/2013 **University of Science and Technology of China(USTC)**
Degree: Master **Major:** Nuclear Engineering
Research Area： Parallel computing with GPU
GPA: 3.8/4.3 (rank 1/20) **TOEFL:** 101(R28, L25, S22. W26)
GRE: 146+166+3
Thesis: Fast equilibrium reconstruction based on GPU

09/2006 ~07/2010 **University of Science and Technology of China(USTC)**
Degree: Bachelor **Major:** Nuclear Science and Technology
Major GPA: 3.6/4.3

- **Department of computer engineering, Institute of Plasma Physics, Chinese Academy of Science(ASIPP) 07/2010~06/2013**

  Summary: Accelerating an important program with GPU parallel computing so that it could be used for real-time control.
  - Proposed several efficient parallel algorithms.
  - Improve the speed of the plasma reconstruction program by ten times and the precision of control signal by four times through using CUDA.
  - Integrated the accelerated reconstruction code into the control system. Minimized the data transfer latency with a multi-thread module.
  - Published three papers (2 SCI, 1 Chinese).
  - Got a 20,000-Yuan National Science Fund.
  - Win the National scholarship for graduate student (The only one in my class).

  Skills: C/C++, CUDA, Shell scripting, JAVA, Matlab
- **Fusion Driven Systems Team (FDS team), USTC&ASIPP 02/2010~07/2010**

  Summary: Designed and verified a conceptual nuclear waste transformation device scheme
  - Proposed a five-batch refueling scenario, which achieved a five-year steady-operation.
  - Simulate the design through extending MCNP with our own modular and integrating it with FISPACT.

  Skills: Fortran, C, Matlab
- **Institute of High Energy Physics, Chinese Academy of Science 07/2009~09/2009**

  Summary: Designed the Proton Beam Window for China Spallation Neutron Source(CSNS).
  - Proposed and verified the helium-cooled PBW scheme, which greatly decreased the amount of high radiation liquid, and reduced the operation cost.
  - This work won the outstanding undergraduate research program of USTC in first place.

  Skills: Fortran, Ansys

Work experience

- **Dianping.com (The biggest O2O Internet company in China)** **06/2013~now**

  Summary: Working as a data engineer
  - Processing server logs with Hadoop, Hive, and Hbase, building a data warehouse.
  - Extending Hive for higher efficient data analysis.
  - Optimizing performance of existed programs

Publication

- **Xiaoning Yue**, Bingjia Xiao, Zhengping Luo Yong Guo, *Fast equilibrium reconstruction for tokamak discharge control based on GPU"*, Plasma Physics and Controlled Fusion **55** 085016 **(SCI, IF 2.369)**
- **Xiaoning Yue**, Bingjia Xiao, Zhengping Luo "*A Fast 2-dimension Possion Direct Solver based on CUDA* "(in Chinese), Computer science **40**(10) 21-23
- Qiping.Yuan, **Xiaoning Yue**, Xiaofang, Pei, Zhengping Luo, Bingjia Xiao, "*The implementation of real time parallel equilibrium reconstruction in EAST PCS*", 9th IAEA Technical Meeting on Control, Data Acquisition, and Remote Participation for Fusion Research, May, 2013. (Oral presented, paper will be published in Fusion Engineering and Design)

Internship

- **Qiyun Software Company,** **06/2012~08/2012**

  Summary: Worked as an intern in Qiyun Inc. for 2 months..
  - Developed a bug submission, tracing and management system for the developers.
  - Participate in the development of a visualized database management system.

Honors & Awards

- National Scholarship for graduate student 2012
- Outstanding undergraduate research program of USTC 2009
- Third prize of National Post-Graduate Mathematic Contest in Molding 2011
- "Zhong Guanghe" scholarship, outstanding scholarship of USTC. 2008-2009
- Outstanding scholarship of USTC 2007-2008
- NongMei" scholarship of State Key Laboratory of Fire Science. 2006-2007
- Second prize of 22nd National Physics Contest for High School. 2005