

Jiaoni Bai

Curriculum Vitae

"I am a slow walker, but I never stop walking." - Jiaoni Bai

Education

- 2013–Now **PhD of physics**, *Goethe-Universität, Frankfurt am Main, Germany.*
- 2010–2013 **Master of Engineering Study in Computer Technology**, *Institute of High Energy Physics, Chinese Academy of Sciences, Peking, China, GPA – 8.0.*
- 2006–2010 **Bachelor of Engineering Study in Medical Informatics Engineering**, *Southern Medical University, Guangzhou, China, GPA – 9.0.*

PhD Dissertation

- Title *Development of the timing system for the Bunch-to-Bucket transfer between the FAIR accelerators*
- Professor Prof. Dr. Oliver Kester
- Supervisors Dr. Dietrich Beck and Dr. David Ondreka
- Description
 - Development of the Bunch-to-Bucket transfer system
 - C-programming of the soft CPU LatticeMico32
 - VHDL programming of Altera FPGAs
 - Measurement of the White Rabbit network performance

Master Thesis

- Title *The development of EPICS driver for customized VME hardware*
- Supervisor Taoguang Xu
- Description
 - Development of the software interface between EPICS and VME hardware
 - Development of the operator controlling and monitoring interfaces by MEDM hardware
 - VxWorks program for Motorola VME board MVME5100

Bachelor Thesis

- Title *The CCD performance test and analysis*

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- Description
- Investigation of the influence factors for CCD
 - Test how these factors influence CCD

Awards

- 2012 Won “Scholarship of the head of the Institute of High Energy Physics, CAS” for master thesis
- 2007 Won second prize of “Mathematical Contest in Modeling in Southern Medical University”

Key skills

- Intermediate Network engineering, Bash shell script and Visual Basic programming
- Advanced VHDL program for Altera FPGAs, C, accelerator technology, accelerator physics, VxWorks programming and EPICS

Computer literacy

- Basic applications Windows, Linux (Ubuntu/Debian), Microsoft Office and LaTeX
- Engineering applications Altera Quartus and Matlab
- Art design application Photoshop and Corel VideoStudio
- Web design Dreamweaver

Languages

- Mandarin Chinese Mother tongue
- English Good written and spoken
- German Goethe-Zertifikat B2