Jiaoni Bai

Curriculum Vitae

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

Education

2013–Now	**PhD in Physics**, *Goethe-Universität, Frankfurt am Main*, Germany.
2010–2013	**Master of Engineering in Computer Technology**, *Institute of High Energy Physics, Chinese Academy of Sciences*, Peking, China, *GPA – 8.0*.
2006–2010	**Bachelor of Engineering in Medical Informatics**, *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	o Development of the FAIR Bunch-to-Bucket transfer system
	o C-programming of the soft CPU LatticeMico32
	o VHDL programming of Altera FPGAs
	o Measurement of the White Rabbit network performance

Master Thesis

Title	*Development of the EPICS Driver for Customized VME Hardwares*
Supervisor	Taoguang Xu
Description	o Development of the software interface between EPICS and VME hardware
	o Development of the operator controlling and monitoring interfaces by MEDM hardware
	o VxWorks program for Motorola VME board MVME5100

Bachelor Thesis

Title	*The CCD Performance Test and Analysis*

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Description	o Investigation of the influence factors for CCD
	o 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