WANG Kun

CURRICULUM VITAE

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PERSONAL INFORMATION

Gender	Male
Date of Birth	June 20, 1990
Place of Birth	Xianning, China
Citizenship	Chinese

EDUCATION

2013.9 - present	Ph.D. in Computer Science, Department of Computer Science, Nanjing University
2009.9 - 2013.6	B.S. in Computer Science, Department of Computer Science, Nanjing University
2006.9 - 2009.6	Xianning Senior High School

BACHELOR THESIS

Title	*On Some Non-Computable Decision Problems*
Supervisor	Prof. Dr. Song Fangmin
Abstract	We restudied the Busy Beaver problem which applied restricted Turing machines to give explicit definitions of some functions that are not computable. Based on BBP, we described four non-computable decision problems and proved the Turing equivalence between them.

AWARDS RECEIVED

2012	Nanjing University Elite Scholarship
2012	Outstanding Student of Nanjing University
2011	Nanjing University Elite Scholarship
2011	The SHKP-Kwoks' Foundation Scholarship
2011	Outstanding Minister of SHK Club
2010	National Scholarship for Encouragement
2010	Outstanding Student of Department of Computer Science

RESEARCH INTERESTS

Dominating	Quantum computational models, quantum algorithms
Secondary	Quantum programming language
Special	Formal methods

RESEARCH EXPERIENCE

Sep 2013

Applying Linear Waveguide Array to implement Quantum Walk algorithms, *National Natural Science Foundation of China*, Prof. Dr. Song Fangmin and Prof. Dr. Zhu Shining, Participant.
A project on the theories and technologies of applying Linear Waveguide Array to implement Quantum algorithms based on Quantum Walks.

Feb 2013 - Jun 2013

Introduction to C Programming, *Institute for International Students*, Wang Kun, Instructor.
An introductory course on C programming language for the exchange students from France. I was the instructor for both lectures and practices.

May 2012

Quantum Computational Model Transformation System based on Categorical Quantum Mechanics, *Nanjing University Undergraduate Innovation Program*, Wang Kun, Leader.
We apply a high-level algebra - Categorical Quantum Mechanics - to formally describe two Quantum Computational models: Quantum Turing Machine and Quantum Circuit Model, then figure out the key similarities and differences between them. After that, we transform algorithms realized on one model to corresponding algorithms on another.

Sep 2011

Quantum Computation, *Quantum Computation Research Group*, Prof. Dr. Song Fangmin, Participant.
A Seminar of studying the Quantum Mechanics, Information Theory, Cryptography, and Quantum Algorithms.

LANGUAGES

Chinese	**Proficient**	*My native language.*
English	**Good**	*Passed CET6 held by Ministry of Education of China.*

TECHNICAL SKILLS

Programming Language	C, C++, Java, Verilog, Markdown	*Word Processing*	Gvim, Ctex
Self-Learning Ability	Category Theory, Quantum Mechanics, Symbolic Logic	*Development Tools*	Visual Studio, Eclipse, QuartusII