Kun WANG

CURRICULUM VITAE

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Personal Information

Gender	Male
Date of Birth	June 20, 1990
Nationality	China
Homepage	kun-wang.github.io

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

Awards

2015	Outstanding Cadre of the Communist Youth League of Nanjing University
2014	Scholarship for Doctoral Studies by the Hasso Plattner Institute
2012	Nanjing University Elite Scholarship
2012	Outstanding Student of Nanjing University
2011	Nanjing University Elite Scholarship
2011	The SHKP-Kwoks' Foundation Scholarship
2010	National Scholarship for Encouragement

Research Interests

Dominating	Quantum algorithms, quantum computational models, quantum computational complexity
Secondary	Quantum information, quantum programming language

Research Papers

NCTCS2015 **Kun Wang**, Nan Wu, and Fangmin Song. *On Four Non-Computable Decision Problems*. National Conference on Theoretical Computer Science, 2015. Submission succeed, reviewing.

QIC2015 Nan Wu, **Kun Wang**, Haixing Hu, Fangmin Song and Xiangdong Li. *A Novel Quantum Random Number Generation Algorithm Used by Smartphone Camera*. Proc. SPIE 9500, Quantum Information and Computation XIII, 2015. Baltimore, Maryland, United States.

Research Experience

Feb 2015 - Jun 2015

Introduction to Computation Theory, *Department of Computer Science*, Wang Kun, Teaching Assistant.

An introductory course on computation models (recursive functions, lambda calculus, Turing machine, etc.) by professor Song Fangmin. I was responsible for exercise courses. I implemented a Turing machine simulator for better understanding the model, hosted in Github.

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.

Technical Skills

Programming Language	C, C++, Java, Verilog, Markdown	*Word Processing*	Vim, Tex, Sublime Text
Self-Learning Ability	Category Theory, Linear Algebra, Quantum Mechanics, Symbolic Logic	*Development Tools*	Visual Studio, Eclipse, QuartusII, Git