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## CURRICULUM VITAE

I was born in Rudong, China, on the 7<sup>th</sup> of July 1981. After finishing primary school and high school there, I started my undergraduate studies at the Department of Modern Physics, University of Science and Technology of China, in 1999. I majored in theoretical physics, and the diploma work with which I graduated in summer of 2003, "Review of Seiberg-Witten duality in N=2 supersymmetric gauge theories" was supervised by Prof. Si-Cong Jing. During the undergraduate studies, I started to be exposed to research, first in a high energy theory group, where I reviewed the proton spin problem, then in a quantum information group, getting involved in the research of many body entanglement, and finally in a condensed matter theory group, working on the transport problem of semiconductors.

In September 2003, as a master student, I joined the string theory group of Prof. Miao Li at the Institute of Theoretical Physics, Chinese Academy of Science, in Beijing. During my master studies, I worked on the interplay of string theory and cosmology. I published 6 papers and gave several talks about my work both in the institute and in other universities.

In May 2007, I began my Ph.D. studies under the supervision of Prof. Jan Zaanen at the Instituut-Lorentz for theoretical physics in Leiden. This thesis contains the main results of the research during this period. In the summer of 2010, I spent three months working at Los Alamos National Lab in the group of Prof. Sasha Balatsky and Prof. Alan Bishop. As a graduate student, I presented my work through talks and posters at several conferences in the Netherlands, Japan, England and the United States. During my Ph.D, I was twice teaching assistant for a course in condensed matter physics for master students.

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