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Letter of Recommendation

Dear Madam or Sir:

It is my pleasure to recommend Mr. Fan Lu for his further graduate study to your graduate program.

I have known Fan since he took my class of *Quantum Mechanics* from Feb. to Jul. 2019. His performance impressed me very much on his diligence and excellent course study. Usually in my course, I talk about some advanced topic on quantum mechanics beyond the text book. Fan still showed his interests and enjoyed discussing with me when he was challenged with puzzles or doubts. Finally, Fan earned a final score of 97/100 for this course, ranked top 10 in about 100 students, which did not surprise me since he has always been dedicated in his study.

Moreover, Fan studied quantum computing as his research project. Based on my observation, Fan has a strong back ground in Physics, Mathematics and Computational Program. He is one of the outstanding students at Sun Yat-sen University. Hoping for valuable opportunities to come for his graduate study, I most sincerely recommend Mr. Fan Lu to you without reservation.

Yours sincerely,

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To whom it may concern,

It is my honor and pleasure to recommend an excellent student Mr. Fan Lu for your graduate program. Mr. Lu was a student in my undergraduate quantum courses, and has tremendous potential for future graduate study and research.

I met Mr. Lu this September when he joined my courses *Quantum Optics* and *Quantum Computing* for senior undergraduate students. These courses were difficult and demanding to the students, but he showed great passion in them and completed the courses with very impressive performance. He always finished the homework timely with high quality, and passed the final examination with a good score. Moreover, it is worth mentioning that Quantum Computing was not included in his undergraduate program initially and he could have chosen other easier courses as his senior courses. Nevertheless, after attending the first few lessons, he applied to the Office of Academic Affairs to join this course, and devoted plenty of time to studying it later. I think this showed his intense interest in quantum computing and keen desire to study and work in this field.

In addition to studying the quantum theories, Mr. Lu advanced one step further to seek a graduate student position in this area. He had very strong initiatives for seeking study opportunities. Besides taking the courses, he wrote a summary titled *Different Ways to Realize Qubits* and presented it to me when he was seeking a graduate student position at my group initially. We had a long discussion on a variety of physical topics, and I found he had genuine enthusiasm in physics, particularly in quantum information and quantum computing, which fits him very well for graduate study in this field, so I made him an offer soon after that. Although he decided to apply for a graduate student position overseas later, I am still very pleased to be his reference and wholehearted to recommend him for your graduate program. I believe he will perform very well as a graduate student, and hope he can obtain the opportunity to study at your institute. I shall appreciate your consideration for his application very much.

Should you have any concern regarding this letter, please feel free to contact me.

Yours sincerely,

Shengshi Pang