

Score for Li, John

Intellectual Merit Criterion

Overall Assessment of Intellectual Merit

Very Good

Explanation to Applicant

The candidate has shown potential to conduct research in a team settings as well as independently. He was the recipient of National SMART grant and recipient of numerous local scholarships and help from a Foundation. He has two publications in the local undergraduate research journal. He has given oral and poster presentations in local and national level conferences and meetings.

Broader Impacts Criterion

Overall Assessment of Broader Impacts

Very Good

Explanation to Applicant

The candidate is served as vice-president of the local SPS chapter and now serving as a president of the same SPS chapter. No other outreach activities is explained by the candidate that encourages broader participation at all levels by the citizens.

Score for Li, John

Intellectual Merit Criterion

Overall Assessment of Intellectual Merit

Excellent

Explanation to Applicant

The applicant academic record is consistent with the reference letters. References contain important details with comparison to other students over a long period of time. Both academic records and recommendation letters are outstanding. The applicant had done a reasonable amount of research with some presentations at local conferences and one local publication. The applicant has won many awards and grants which are clear indication of the applicant's high commitment and ability as well as high potential. Many other activities also support the applicant's potential for original research.

Broader Impacts Criterion

Overall Assessment of Broader Impacts

Very Good

Explanation to Applicant

The proposed area of research combines physics, mathematics and computer science. The proposed project is indeed of direct relevance to the well being of the society and could benefit different scientists working in different fields if successful. The applicant had some major activities outside his own field of study, which indicate a desire for a broader impact. His work with disadvantaged children is significant. The applicant however could benefit from spending some time abroad. He could also benefit from reaching out to minorities and participate in more local activities.

Score for Li, John

Intellectual Merit Criterion

Overall Assessment of Intellectual Merit

Very Good

Explanation to Applicant

Through some experimental research experience, applicant has come to specialize in mathematics and theoretical physics. This is an effective path, which has resulted in research progress at the undergraduate institution and likely to continue at graduate level. Description of proposed research is somewhat weak in discussion of connection to larger work, details of problems to be addressed, but still very good for this application level.

Broader Impacts Criterion

Overall Assessment of Broader Impacts

Excellent

Explanation to Applicant

Broad background applicant with very clear commitment to education/outreach, evidenced by concrete actions. Proposal for specific actions in this area (work on Natural-Math project) is at a very high level for this competition, likely to have significant broader impact.