

## Intellectual Merit Criterion

### Overall Assessment of Intellectual Merit

Excellent

### Explanation to Applicant

Improving efficiencies in mobile GPUs seems potentially important, and the candidate's experience, both in academic research (including a conference presentation) and internship seems very well aligned with this direction.

## Broader Impacts Criterion

### Overall Assessment of Broader Impacts

Very Good

### Explanation to Applicant

The candidate made an excellent case in the personal statement about how her personal perspective as a woman can help broaden diversity. The points mentioned in the research statement, for example that improving mobile GPU platforms would give the US a competitive edge, seem slightly less compelling.

### Summary Comments

The candidate makes a super impression, her background seems very well suited to the mobile GPU direction, and her potential for making broader impact seems very promising.

## Intellectual Merit Criterion

### Overall Assessment of Intellectual Merit

Excellent

### Explanation to Applicant

The applicant has an excellent academic record. With both academic research experience and an internship in industry, her decision to pursue graduate studies is well informed. Her prior research experience at UT Dallas focused on security and privacy in social networks. Her later research in high performance computing and GPUs serves as valuable background for her proposed research. Her letters of recommendation are very good and attest to her research skills and initiative, both of which will benefit her during her doctoral studies.

## Broader Impacts Criterion

### Overall Assessment of Broader Impacts

Excellent

### Explanation to Applicant

The applicant has a strong personal history of outreach activities with a focus on encouraging females to pursue studies in computer science. She demonstrates initiative by actively seeking out these outreach opportunities. The proposed research can inform the future development of a wide variety of mobile applications.

### Summary Comments

The applicant has all the attributes needed to successfully complete a doctoral program. The intellectual merit and broader impacts of the application are both strong. Very supportive letters of recommendation attest to the applicant's great likelihood of

success in her doctoral program and beyond.

## **Intellectual Merit Criterion**

### **Overall Assessment of Intellectual Merit**

Very Good

### **Explanation to Applicant**

Kristi has been involved in research since early in her undergraduate career through REU site experience, presenting at Grace Hopper conferences, and direct work with faculty. She has also done industry internships. She has tackled a variety of topics in these experiences. She has settled on research in high-performance computing for mobile health monitoring, but her research plan is weak.

## **Broader Impacts Criterion**

### **Overall Assessment of Broader Impacts**

Very Good

### **Explanation to Applicant**

Women outreach, especially through Grace Hopper conferences and employment-related opportunities at Qualcomm. Her research in mobile health monitoring will have impact in healthcare.

## **Summary Comments**

Kristi has demonstrated that she can master a variety of topics, and she has chosen a research topic that suits her abilities and has an opportunity to impact health care. She just needs to plan and carry out her research steps.