Proposal Panel 1 : 2053714

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Agency Name: National Science Foundation

Agency Tracking Number: **2053714**

Panel Summary

Panel Summary

Brief Summary of Project

The PIs plan to grow QMCPy, a Quasi-Monte Carlo Python software library, from its nascent form to be a library more widely embraced by the scientific community. Quasi-Monte Carlo methods potentially yield significant improvements in computational efficiency over the usual independent identically distributed sampling for a wide range of important problems.

Intellectual Merit

Strengths:
This proposal, framed as a software development project for easy access to quasi Monte Carlo methods, presents new statistical methodology as well, not just software. Other panelists felt there is just potential for the software development to spur statistical methodology development. Industry collaborators are mentioned in the proposal.

Weaknesses:
The importance and relevance of the contribution is not clearly spelled out. The potential impact of the proposal should have been explained better.

Broader Impacts

Strengths:
Software development can reach a broad community of users. Graduate student mentoring is mentioned.

Weaknesses:
None noted.

Results from Prior NSF support:
The PIs have been very productive under previous NSF support.

Data Management plan:
Adequate.

Post-doctoral Mentoring Plan
N/A

RECOMMENDATION

This is a proposal for software development, which is always important and necessary for the scientific community, but the specific relevance and importance of this proposal should have been explained more clearly.

The panel placed this proposal in the category: Recommended for Funding if Possible

The summary was read by/to the panel, and the panel concurred that the summary accurately reflects the panel discussion.

PANEL RECOMMENDATION: Recommended for Funding If Possible

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