[[Pulled: 6/22/2017 8:00:38 PM CtxSt: FY17TRIPOD #Revs:3  
*Enable content/macros & double click here:*

**To edit:** select all, right click, toggle field codes.

**To do:** add pull date above. Add total request or total award somewhere?

]]NATIONAL SCIENCE FOUNDATION

Arlington, Virginia 22230

Directorate for Computer and Information Science and Engineering (CISE)

Division of Computing and Communication Foundations (05010000)

TRIPODS Transdisciplinary Research in Principles of Data Science (041Y)

NSF 16-615 Transdisciplinary Research in Principles of Data Science Phase I

Review Analysis Recommendation: **Decline**

TRIPODS : Structured Dimensionality and Data Reduction for Statistical Inference

**L: 1740801 Phillips**, Jeff University of Utah $ 1,500,000

**P172028** **R** TRIPODS Panel 2, Recommended (V,V,G)

Std competition rank 5 of 30 rated projects: 2 HR, 7 R, 10 NR, 11 NDP, on 5/23/2017

**PROJECT OVERVIEW**[[Brief description of the project

Description: This is a proposal to establish a data science institute at University of Utah. The research program consists of multiple problems under the broad umbrella of structured dimensionality and data reduction, and coreset techniques. The team comprises seven investigators representing mathematics, statistics and theoretical computer science. The PIs propose to develop curriculum and data science degree programs at the undergraduate and graduate levels. The proposal also lays out plans for several outreach activities, including interactions with industry and development of translational and expository resources.\_x000D\_

\_x000D\_

Intellectual Merit:\_x000D\_

\_x000D\_

Strengths \_x000D\_

+ the research topics are current and relevant, particularly to theoretical computer science\_x000D\_

+ the qualification of the investigators for the proposed research\_x000D\_

\_x000D\_

Weaknesses \_x000D\_

- interactions among the three disciplines is not well articulated\_x000D\_

- statistics seems to be underrepresented\_x000D\_

- the research focus is a bit narrow\_x000D\_

\_x000D\_

Broader Impact:\_x000D\_

\_x000D\_

Strengths \_x000D\_

+ the educational component is substantial and includes development of curriculum and degree programs\_x000D\_

+ Expansion of Utah Data Science Day as an outreach vehicle and for stren ]]

**INTELLECTUAL MERIT**[[Brief description of the Intellectual Merit strengths and weaknesses in the words of the PDs]]

**BROADER IMPACTS**[[Brief description of the Broader Impacts strengths and weaknesses in the words of the PDs]]

**REVIEW SUMMARY**[[V,V,G Brief description of the panel characteristics, tone, attitudes and/or issues -- anything not in the context statement. Include PDs opinion of the proposal,

any outlying reviews, and any other extenuating circumstances/panel surprises. Keep in mind that this will be in the permanent record, and may be seen by a FOIA request.]]

**RECOMMENDATION**[[Requested action, rationale for action (program/cluster process, available funding, program priorities and balance, etc), funding decision-making process]]

As Program Director, I evaluated this proposal for funding in light of its intellectual merit and broader impacts relative to the goals of the program, taking into account the reviews and ratings, the panel discussions and panel summary. I also considered this proposal in relation to other proposals reviewed in this and other panels, the need to maintain appropriate balance among subfields, the total amount of funds available to the program for new proposals, and general Foundation policies. I concur with the panel's assessment and recommend that this project be declined.

Snoeyink, Jack S.

Cognizant Program Director

Monday, July 17, 2017