



*PVAM-TSU Collaborative Research on Big Data Analytics*

## **Undergraduate Research Program in Data Science**

We invite undergraduates who are interested in data science for our summer undergraduate research program at TSU in 2019. The program will be 10 weeks starting June 3, 2019.

The selected students will work on projects including (but not restricted to) (a) Food Recognition App that uses computer vision and machine learning to automatically detect and classify the types of food and their caloric value from pictures taken by participants; (b) Augmented Reality Physics Lab App that uses computer vision and automation to reinforce and make concrete representations of physics concepts; and (c) App for Automatic paper forms, which uses optical marking recognition, image registration and machine learning to automate data collection of handwritten paper forms. Such projects provide a platform for students to gain practical problem solving ability.

The total stipend for each student is \$4,000.

Requirements for application

1. US citizen or permanent resident
2. GPA 3.0 or above
3. Not incoming freshmen or graduating senior

If you are interested in, please contact and send the following items to Dr. Yunjiao Wang at [yunjiao.wang@tsu.edu](mailto:yunjiao.wang@tsu.edu) or Dr. Daniel Vrinceanu at [daniel.vrinceanu@tsu.edu](mailto:daniel.vrinceanu@tsu.edu) by April 15, 2019:

1. Two letters of recommendation
2. An unofficial transcript
3. A one-page personal statement on what your long-term goals are and what you expect to accomplish through participating in this program