2022 REU Supplement Program on Artificial Intelligence and Simulation Research

Department of Computer Science

University of Dayton, Dayton, Ohio

Sponsored by the National Science Foundation

https://vantam.github.io/reu

Overview: This 12-month program provides undergraduate students in a science, technology, engineering, or mathematics discipline with intensive experience in artificial intelligence and simulation research. The main goal is to provide undergraduate students with an in-depth, hands-on research experience focused on artificial intelligence (AI), object modeling and urban simulation. The students will be mentored and will participate in various research tasks, e.g., data collection and annotation, AI model training, 3D modeling, and simulation development. The program provides research experience for undergraduates (REU) and is not an internship. The program is sponsored by the National Science Foundation (NSF) and hosted by University of Dayton (UD) in Dayton, Ohio, a beautiful city right on the bank of the Great Miami River.

This REU Supplement program supports two (2) UD undergraduate students during a 12-month research on the UD campus (**August 1, 2022 – July 31, 2023**). In particular, this program seeks to engage undergraduate students interested in the fields of computer science or engineering who wish to pursue intensive research opportunities in a supportive and engaging learning environment. The emphasis will be on computer vision and 3D simulation, areas that have extensive practical applications from education, entertainment to healthcare, and beyond. During the program, REU students will work with the faculty mentor and research students on projects that focus on AI and city planning simulation. REU students will participate in research activities and a research symposium.

Stipend: Each REU student will receive up to $8,000 stipend for a 12-month period.

Eligibility Requirements:

1. Must be at least 18 years old by the time the program starts on August 1, 2022.

2. Must be a citizen, national, or permanent resident of the United States.

3. Must be an undergraduate student who will not graduate before July 31, 2023 with a good academic standing in a professional undergraduate program in science, technology, engineering, or mathematics.

4. Demonstrated interest or experience in artificial intelligence and simulation research.

5. Demonstrated experience in programming (C#/Java/Python) and/or 3D object modeling.

Students from underrepresented groups, such as women and racial minority groups, are particularly encouraged to apply.

Application: The deadline of application is **July 1, 2022**. Interested candidates please send **a letter of interest** and **vita** (highlighting research experience if applicable) to Dr. Tam Nguyen (tnguyen1@udayton.edu).

Contact: Please contact Dr. Tam Nguyen (tnguyen1@udayton.edu) if you have any questions.