

First Year Research Award:

Computer Science

Faculty Supervisor:

Professor Tyler Highlander

Position Title: First Year Research Scholar for creation and adjustment of datasets used for training artificial neural networks.

Criteria: The Wittenberg University Computer Science Department will offer a First Year Research Award for the academic year 2022 - 2023 to an incoming student to work with Dr. Tyler Highlander. This student will have a demonstrated academic ability and/or research interest in computer science, particularly artificial intelligence.

Expectations: FYRA Scholarship recipients will devote between 6 and 8 hours per week across their first year to FYRA program and their research-related project, according to the FYRA Learning Contract agreed upon by the sponsoring professor and the scholarship recipient. Recipients will also be expected to participate in a regular meeting of FYRA recipients, present their results in an appropriate forum and submit a copy of their presentation to the appropriate university office. FYRA Scholarship recipients will also participate in an assessment of the FYRA program. (The FYRA Scholarship is not part of a student's work study award.)

Research Activity: The First Year Research Award recipients will assist Dr. Tyler Highlander, Assistant Professor of Computer Science, in the ongoing research activities of the Conditional-Dilated Attention Tracking Model (C-DATM). C-DATM is an artificial neural network that uses small amounts of data to generically track objects in real-time. Students will assist on applying this model to many datasets and making conclusions about functionality and performance. The specific depth at which the project will include understanding of neural networks is dependent on the students' background and interest in the research area. Recipients should have problem solving skills, previous computer programming is a plus, and the students will be expected to enroll in COMP 150 the Fall of their first year.