Research Instructors

Research Instructors take a leadership role in designing the technical Artificial Intelligence (AI) curriculum. They work closely with the Princeton AI4ALL Program Directors Profs. Olga Russakovsky and Edward Felten, with the AI4ALL Curriculum Manager Wells Santo, and with the Ethics Instructors. The Research Instructors build off of teaching materials and feedback from prior years to teach AI in an accessible and inclusive way to high school students.

Responsibilities of the Research Instructor position include:
- Taking leadership on the overall development and delivery of the curriculum
- Working together with other Research Instructors to develop and deliver the daily lectures on core machine learning concepts. On different days an individual Research Instructor may either take the lead in teaching or may provide support as a teaching assistant in the classroom.
- Developing and delivering one of the hands-on research projects, likely together with one other Research Instructor. Each research project will be focus on an AI for social good application. Past projects have included (1) Natural Language Processing for false news detection, (2) Computer Vision for improving the reliability of self-driving cars, (3) Computational Social Science for yielding insights that can improve the lives of disadvantaged children in the context of the Fragile Families challenge, and (4) Machine learning for increasing the privacy and security of Internet of Things devices. A particular challenge for Research Instructors will be to develop curriculum that is accessible to high school students who may not have had prior programming experience.
- Working closely with the participants to develop and practice their final oral presentation to showcase their findings at the end of the program
- Assisting with recruiting and coordinating with expert guest lectures
- Holding evening office hours as needed to support the participants

Qualifications:
- Strong AI background through coursework at least at the level of COS 324
- Advanced AI coursework and/or AI research experience strongly preferred
- Passion for teaching
- Prior teaching experience, especially with students ages 14 – 17, is desirable
- Strong oral and written communication skills
- Creative and positive attitude, and enthusiasm for working with and high school program participants
- Adaptability and willingness to complete hard work
- Strong ability to work both independently and part of a team
- Demonstrated responsibility and leadership skills
- Availability M-F for the duration of the program, including occasional evenings
- Must be eligible to work in the United States
- Final candidates will be required to pass a background check

The dates of employment are July 13th - August 2nd, 2020. Vacation time is unavailable. In addition, Research Instructors are expected to participate actively in preparing the curriculum in the months prior to the camp (February-July 2020).

For Research Instructors <u>not</u> supported during the summer on a research grant: The salary for the duration of the program is $3600. It will be paid out in one installment following the completion of the camp. Three meals a day are provided starting with dinner on July 12th and ending with breakfast on August 1st.

For Research Instructors <u>supported</u> during the summer on a research grant: We are able to "buy out" your time as needed as to not cause conflicts between the research you're doing in the context of the grant and the work for this camp. This would not affect your stipend but would ensure that you have protected time during the 3 weeks of the program to focus on teaching for the camp rather than being committed to delivering on the grant. Three meals a day are provided starting with dinner on July 12th and ending with breakfast on August 1st.