

Research Assistant Opportunity

Casual Position

Eliciting Adaptive Sequences for Online Learning

Position start date: August 2022

Overview:

Dr. Oscar Lin of School of Computing and Information Systems, Faculty of Science and Technology, Athabasca University is looking for a part-time Research Assistant to work on a newly approved NSERC Discovery Grant research --- “Eliciting Adaptive Sequences for Online Learning” (2021-2025).

Starting this fall, we will be involved in a research program on the formulation and simulation of adaptive learning environments, focusing on Knowledge Graphs for domain modeling, Explainable AI algorithms for student modeling, adaptive sequencing engine, and interactive and auto-assessed learning objects.

As a researcher, you will contribute to this research by developing mathematical models and computer algorithms for representing and predicting student knowledge proficiency and making decisions/recommendations about instructor pedagogical strategies and in this system with the goal to provide personalized learning paths, learning activities, exercises, assessments, and feedback.

You may also be involved in other research projects at the Intelligent Educational Systems Group focusing on knowledge space modelling, student modeling and machine learning and simulation across a wide range of applications (e.g., interactive auto-assessed exercises).

Specific activities include, but are not limited to:

- Conduct novel research at the intersection of AI/machine learning and education.
- Participate in group meetings (online, usually bi-weekly. You can work from home).
- Participate in the writing of articles and of other documents related to research activities.

Qualifications:

Applicants should have completed or be about to complete their BSc. in Computer Science or a related technical field. We expect a strong scientific background and proven track record in AI, machine learning/data mining, Statistics, computer programming (e.g., Python or R or JavaScript). Furthermore, we expect excellent communication skills in English.



How to apply:

Qualified individuals are encouraged to submit their application by email to Dr. Oscar Lin at oscarl@athabascau.ca. Applications should include (as a single PDF file) a brief cover letter that summarizes your skills, interests and experience; a current resume or curriculum vitae; an unofficial copy of your transcript; and the contact information for 1-2 references.

Evaluation of applications will begin immediately and will continue until a suitable candidate is found. All applicants are thanked for their interest in this position; however, only candidates selected for an interview will be contacted.

Athabasca University and the researchers are committed and seek to support equity in employment and research opportunities. We strongly encourage applications from Indigenous people, people of colour, people with disabilities, 2SLGBTQ+ people, women, and other historically marginalized groups. Applicants are welcome, but not required, to self-identify in their letter of application.

For more information on this Research Assistant Opportunity, please contact Oscar Lin, PhD at the coordinates below.