

Undergraduate Research Opportunity

Area of Research or Title of Proposed Research Project: Automatic Detection of Emerging Phenotypes in Livestock Using Video Analysis		
Name and department of the supervisor:	Type of the research opportunity available (check all that apply) <input checked="" type="checkbox"/> Research in Animal Biology (ANSC4700/4710) <input type="checkbox"/> Research Volunteer	
Semester(s) and Year, e.g. F2025/W2026 F2025 and W2026		Application deadline: July 20, 2025
List 2-5 specific things you feel a student will learn during this position. <ul style="list-style-type: none">- Data collection and annotation of images and video information- Predictive modelling- Programmatic data analysis		
Which 2-5 knowledge, skills, or attitudes are most relevant to this position? <ol style="list-style-type: none">1. Knowledge: Digital and Technical2. Skill: Critical and Analytical Thinking3. Skill: Knowledge Integration4. Skill: Time Management5. Attitude: Responsibility		
Application Requirements <ol style="list-style-type: none">1. 1-2 page cover letter expressing your interest in this project2. Indicate the research course code on the cover letter accompanying the application package3. Meet minimum course requirements, as outlined in the Undergraduate Calendar4. Resume or CV5. Unofficial transcripts		

Courses and/or Experiences that are Required or Recommended for the proposed position (s)

- Some exposure using computers and some programming in R, Python or other language. AGR*3200 is a plus.
- Basic notions of statistics
- Some knowledge of ethograms and animal morphometrics is a plus.

Contact information:

Dr. Dan Tulpan, Email: dtulpan@uoguelph.ca

Documents Required of Applicants

Cover Letter Resume or CV

Unofficial Transcript

Statement of Interest in Research, addressing the following questions: Why do you want to do research (and in particular a 4th year project)? Why do you want to do research in this lab specifically? What are your future goals/aspirations, for example, are you potentially interested in graduate research work or even research as a career?

*Submit your application package to the faculty members offering research projects that interest you. You may apply for up to five (5) projects.