

# STA302 Survey - Winter 2024 - Post-course

## Background and Purpose of the Study

I am conducting a survey of student usage and perceptions about Large Language Models (LLM) usage in STA302.

## What will your participation involve?

As a student in STA302, you are being asked to complete one survey to support this investigation.

You will receive an extra 1% of your overall course mark for completing a survey. i.e. if your overall mark was 84, it will go to 85 if you complete this survey.

## What will I share with others?

I believe that the results of this evaluation will be interesting to the broader Statistics and Data Science Education community and so I am asking your permission to include your data in my research.

If you consent, then your data will be used in the calculation of the summary statistics that will form part of any reports that we publish on this research.

No individual student will be identifiable in any published dataset.

You may decline to have your data shared, and yet still get the full extra 1% by completing the survey. It just means that your responses are not part of the anonymized data analyzed for any published reports.

## What will your participation involve?

1. You will fill out the survey.
2. By agreeing to participate in the study, you also agree to allow the researchers to investigate how your survey responses are related to your grades and to include your responses in the anonymized data that will be analyzed and presented at conferences

and publications.

**How will your confidentiality be protected?**

The course instructor and teaching assistants will not look at who has consented to participate in this study until after the final grades for the course have been submitted.

After the grades have been submitted, the investigators will link the results for each student who has agreed to participate in the study.

Once the responses are anonymized and all identifying information removed, the data will be analyzed and a summary of the findings will be presented or published. De-identified survey responses may be made available to other researchers for further investigation, but there will be no way to identify your identity from these data.

**Can you withdraw from the study?**

You may refuse to have your data included or withdraw your consent without any negative consequence. You may decide to withdraw consent up to one month after the end of your exam period by completing this form. I will not be made aware of your consent status during the course and it will not affect your grade or standing in the course in any way.

**How can you learn more?**

The investigator – Rohan Alexander – is an assistant professor jointly appointed in the Faculty of Information and the Department of Statistical Sciences. If you have any questions or concerns about this study, you can reach me at [rohan.alexander@utoronto.ca](mailto:rohan.alexander@utoronto.ca).

If you have any questions about your rights as a research survey participant you can contact the University of Toronto Office of Research Ethics at [ethics@utoronto.ca](mailto:ethics@utoronto.ca).

## Informed consent

1. After carefully reading the informed consent document, please indicate below whether you consent to have your anonymized responses included in the research study? \*

- ☐ Yes, I authorize the use of the data collected about me for the STA302 course survey to be used. I will be compensated 1% of my course grade for completing the survey.
- ☐ No I do not want my data included in the research study, but I want to complete the survey. I will be compensated 1% of my course grade for completing the survey.
- ☐ I do not want to complete this survey. I realize that I am forfeiting the corresponding course credit.

## About you

2. What is your full name on Quercus? \*

3. What is your Student ID? \*

4. What year are you? \*

☐ 2nd

☐ 3rd

☐ 4th

☐ Other

5. What is your specialization? \*

6. What is/are your major/s? \*

7. What is/are your minor/s? \*

8. What is your GPA? \*

# Self Assessment of Writing Proficiency and Confidence

9. Please rate how much each statement describes you, on a scale from "This is very different to me" to "This is a lot like me" \*

	"This is very different to me"	"This some what describes me"	"This is a lot like me"
Writing is easy for me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to write	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe it is important to be a good writer.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When I edit it is easy for me to catch my mistakes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel confident sharing my writing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am confident in my overall writing ability.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## **Self Assessment of Coding Proficiency and Confidence**

10. Please rate how much each statement describes you, on a scale from "This is very different to me" to "This is a lot like me". When answering, please consider whichever programming language you are most familiar with. \*

	"This is very differe nt to me"	"This some what descri bes me"	"This is a lot like me"
Coding is easy for me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like to code	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe it is important to be a good coder.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When I check my code it is easy for me to catch my mistakes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel confident sharing my code.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am confident in my overall coding ability.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## Generative AI

11. How familiar are you with using generative AI tools such as OpenAI's ChatGPT or equivalents? \*

- ☐ Very familiar
- ☐ Somewhat familiar
- ☐ Not familiar
- ☐ Other

12. Have you used any generative AI tools such as OpenAI's ChatGPT or equivalents for any reason (personal or educational)? \*

- ☐ Yes
- ☐ No
- ☐ Other

13. If you have used generative AI tools such as OpenAI's ChatGPT or equivalents, in what ways have you used it (select all that apply)? \*

- ☐ Asking technical questions
- ☐ Carrying on a conversation out of curiosity
- ☐ Asking general knowledge questions
- ☐ Solving homework
- ☐ Checking solutions
- ☐ Asking quick questions when stuck
- ☐ Explaining concepts
- ☐ Writing essays or paragraphs
- ☐ Writing code
- ☐ Never used it
- ☐ Other

14. To what extent do you think using generative AI tools such as ChatGPT by OpenAI (or equivalents) is ethical and appropriate for schoolwork? \*

☐ Appropriate

☐ Inappropriate

☐ Other

15. Please elaborate on your answer above. \*

16. Did you use any generative AI tools such as OpenAI's ChatGPT or equivalents for STA302? \*

☐ Yes

☐ No

☐ Other

17. How helpful did you find generative AI tools such as ChatGPT by OpenAI (or equivalents) for each component of STA302? \*

	"Not helpful"	"Somewhat helpful"	"Very helpful"	"I did not use generative AI for this component"
Weekly quiz	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Weekly mini-essay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Papers: Generating ideas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Papers: Writing code	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Papers: Writing content	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Papers: Improving content	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

18. What is your recommendation for how generative AI tools such as ChatGPT by OpenAI (or equivalents) should be used in the course in future? \*

19. (Optional) Any other comments?

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