Faculty of Health  
Department of Psychology  
PSYC 2022Q: STATISTICAL METHODS I  
Synchronized Lectures over Zoom on Tuesdays 11:30am-2:00pm  
2023 Fall Term

Instructor and T.A. Information

<table>
<thead>
<tr>
<th>Instructor/TA</th>
<th>Name</th>
<th>Email</th>
<th>Online Office Hour</th>
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</thead>
<tbody>
<tr>
<td>Instructor</td>
<td>Cathy (Xijuan) Zhang</td>
<td><a href="mailto:xijuan@yorku.ca">xijuan@yorku.ca</a></td>
<td>Monday 4pm-5pm</td>
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<tr>
<td>TA</td>
<td>Kev Zhou</td>
<td><a href="mailto:kevnook@yorku.ca">kevnook@yorku.ca</a></td>
<td>TBA</td>
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Course Prerequisite(s): Course prerequisites are strictly enforced
- HH/PSYC 1010 6.00 (Introduction to Psychology), with a minimum grade of C when used as a prerequisite.

Course Credit Exclusions
Please refer to York Courses Website for a listing of any course credit exclusions.

Course website: eClass
All course materials will be available on the course eClass site.

Course Description
This course is usually the first course in statistics that most psychology (and other) majors take in university. This class will introduce you to the basic principles underlying statistical analyses in psychology and other social sciences areas. It will also prepare you for future statistics classes which will focus on more advanced techniques. More specifically, this course will introduce you to the type of variables utilized in psychology, two-variable correlation, and comparing two independent or paired-sample means. Null hypothesis significance testing will be introduced, however the focus will be on understanding relationships among variables. Data analysis using statistical software will be carried out with the open-source software R (www.r-project.org).

Program Learning Outcomes
Upon completion of this course, students should be able to:
2. Interpret and report the results of descriptive statistics and inferential statistics.
3. Distinguish between the role of descriptive statistics and inferential statistics.
4. Run simple analyses using the computer programming language R.
Topics Covered
- Defining Key Statistical Terms
- Frequency Distributions
- Central Tendency
- Variability
- z-scores/Normal Distribution
- Probability
- Sampling Distribution
- Confidence Intervals
- Power
- Effect Size
- Hypothesis Testing
- Pearson’s Correlation
- Chi-square: Goodness of Fit
- Chi-square: Test of Independence
- One-sample t-test
- Introduce independent and dependent designs

*Effect size is included as part of all inferential statistics covered in this course.

Course Notes and Textbooks
Required lecture notes will be posted on eClass.

- It is an open source textbook that can be downloaded using the link https://open.umn.edu/opentextbooks/textbooks/559

Required youtube videos are at the end of the syllabus.

Recommended youtube videos will also be posted on eClass.

- Also an open source textbook that can be downloaded using the link https://openstax.org/details/books/introductory-statistics?Book%20details

Course Requirements and Assessment:
Final grades will be comprised of marks earned on:

1) Exams (Midterm: 20%; Final Exam: 30%)
Midterm (Feb 28): All materials up to Feb 28.
Final Exam (TBA): All course materials will be covered with more emphasis on the second half of the course.

2) Assignments (4 x 10%)
There will be four assignments for the course that will require you to analyze data (including using R) and
short answer questions. You will be given the assignments at least one week before they are due. 

**Assignment Due Dates:**
Assignment #1: Feb 7  
Assignment #2: Feb 21  
Assignment #3: March 21  
Assignment #4: April 4  
You will be deducted 10% of the assignment for each day (not including weekends) that your assignment is late.

3) **In-class participation (10%)**
During lectures, I will have iclickers questions. The iclicker questions will be marked based on participation (50%) and correctness (50%). Your three lowest weekly marks will not be counted. In other words, if you miss up to three weeks, you can still get full marks for the in-class participation.

3) **Bonus (2%)**
You can earn up to 2% bonus if you write the assignments using LaTeX on Overleaf.
- 0.5% for each assignment
- Tutorial website: [https://www.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes](https://www.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes)

**Grading as per Senate Policy**
The grading scheme for the course conforms to the 9-point grading system used in undergraduate programs at York (e.g., A+ = 9, A = 8, B+ = 7, C+ = 5, etc.). Assignments and tests* will bear either a letter grade designation or a corresponding number grade (e.g. A+ = 90 to 100, A = 80 to 89, B+ = 75 to 79, etc.)
For a full description of York grading system see the York University Undergraduate Calendar - [Grading Scheme for 2022-23](https://registrar.yorku.ca/enrol/dates/2022-2023/fall-winter)

**Missed Tests/Midterm Exams/Late Assignment**
You can still hand in the assignment before the answer key released. You will lose 10% of the mark for each late day. Once the answer key is released, you will not be able to submit the assignment for grades.
If you miss the midterm, then the final exam will count 50% of your grade.

**Add/Drop Deadlines**
For a list of all important dates please refer to: [https://registrar.yorku.ca/enrol/dates/2022-2023/fall-winter](https://registrar.yorku.ca/enrol/dates/2022-2023/fall-winter)

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<tr>
<th>Last date to add a course without permission of instructor</th>
<th>Jan 22</th>
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<tbody>
<tr>
<td>Last date to add a course with permission of instructor</td>
<td>Feb 6</td>
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<tr>
<td>Last date to drop course without receiving a grade</td>
<td>March 17</td>
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<tr>
<td>Course Withdrawal Period (withdraw from course and receive a “W” on transcript – see Add and Drop Deadline Information below)</td>
<td>March 18 – April 11</td>
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Add and Drop Deadline Information
There are deadlines for adding and dropping courses, both academic and financial. Since, for the most part, the dates are different, be sure to read the information carefully so that you understand the differences between the sessional dates below and the Refund Tables.
You are strongly advised to pay close attention to the "Last date to enrol without permission of course instructor" deadlines. These deadlines represent the last date students have unrestricted access to the registration and enrolment system.
After that date, you must contact the professor/department offering the course to arrange permission.
You can drop courses using the registration and enrolment system up until the last date to drop a course without receiving a grade (drop deadline).
You may withdraw from a course using the registration and enrolment system after the drop deadline until the last day of class for the term associated with the course. When you withdraw from a course, the course remains on your transcript without a grade and is notated as 'W'. The withdrawal will not affect your grade point average or count towards the credits required for your degree.

Electronic Device Policy
This course will be delivered in an online format and therefore electronic devices (e.g., tablets, laptops) are permitted during class time for course-related purposes. It is expected that you would complete tests/exams in a manner that does not require consulting an unauthorised source during an examination unless the tests/exams are open-book.

Academic Integrity for Students
York University takes academic integrity very seriously; please familiarize yourself with Information about the Senate Policy on Academic Honesty.
It is recommended that you review Academic Integrity by completing the Academic Integrity Tutorial and Academic Honesty Quiz

Test Banks
The offering for sale of, buying of, and attempting to sell or buy test banks (banks of test questions and/or answers), or any course specific test questions/answers is not permitted in the Faculty of Health. Any student found to be doing this may be considered to have breached the Senate Policy on Academic Honesty. In particular, buying and attempting to sell banks of test questions and/or answers may be considered as “Cheating in an attempt to gain an improper advantage in an academic evaluation” (article 2.1.1 from the Senate Policy) and/or “encouraging, enabling or causing others” (article 2.1.10 from the Senate Policy) to cheat.

Academic Accommodation for Students with Disabilities
While all individuals are expected to satisfy the requirements of their program of study and to aspire to do so at a level of excellence, the university recognizes that persons with disabilities
may require reasonable accommodation to enable them to do so. The university encourages students with disabilities to register with Student Accessibility Services (SAS) to discuss their accommodation needs as early as possible in the term to establish the recommended academic accommodations that will be communicated to Course Directors as necessary. Please let me know as early as possible in the term if you anticipate requiring academic accommodation so that we can discuss how to consider your accommodation needs within the context of this course. 
https://accessibility.students.yorku.ca/

Excerpt from Senate Policy on Academic Accommodation for Students with Disabilities

1. Pursuant to its commitment to sustaining an inclusive, equitable community in which all members are treated with respect and dignity, and consistent with applicable accessibility legislation, York University shall make reasonable and appropriate accommodations in order to promote the ability of students with disabilities to fulfill the academic requirements of their programs. This policy aims to eliminate systemic barriers to participation in academic activities by students with disabilities. All students are expected to satisfy the essential learning outcomes of courses. Accommodations shall be consistent with, support and preserve the academic integrity of the curriculum and the academic standards of courses and programs. For further information please refer to: York University Academic Accommodation for Students with Disabilities Policy.

Course Materials Copyright Information

These course materials are designed for use as part of the PSYC 2021C course at York University and are the property of the instructor unless otherwise stated. Third party copyrighted materials (such as book chapters, journal articles, music, videos, etc.) have either been licensed for use in this course or fall under an exception or limitation in Canadian Copyright law. Copying this material for distribution (e.g. uploading material to a commercial third-party website) may lead to a violation of Copyright law. Intellectual Property Rights Statement.

Calumet and Stong Colleges’ Student Success Programming:

Calumet and Stong Colleges aim to support the success of Faculty of Health students through a variety of free programs throughout their university career:

- **Orientation** helps new students transition into university, discover campus resources, and establish social and academic networks.
- **Peer Mentoring** connects well-trained upper-year students with first year and transfer students to help them transition into university.
- **Course Representative Program** supports the academic success and resourcefulness of students in core program courses through in-class announcements.
- **Peer-Assisted Study Sessions (PASS)** involve upper-level academically successful and well-trained students who facilitate study sessions in courses that are historically challenging.
- **Peer Tutoring** offers one-on-one academic support by well-trained Peer Tutors.
- Please connect with your Course Director about any specific academic resources for this class.
• Calumet and Stong Colleges also support students’ Health & Wellness, leadership and professional skills development, student/community engagement and wellbeing, Career Exploration, Indigenous Circle, awards and recognition, and provide opportunities to students to work or volunteer.

• For additional resources/information about Calumet and Stong Colleges’ Student Success Programs, please consult our websites (Calumet College; Stong College), email scchelp@yorku.ca, and/or follow us on Instagram (Calumet College; Stong College), Facebook (Calumet College; Stong College) and LinkedIn.

• Are you receiving our weekly email (Subject: “Calumet and Stong Colleges - Upcoming events”)? If not, please check your Inbox and Junk folders, and if it’s not there then please contact ccscadmn@yorku.ca, and request to be added to the listserv. Also, make sure to add your ‘preferred email’ to your Passport York personal profile to make sure you receive important news and information.
## Course Schedule

The schedule is subject to change depending on the pace of the lectures.

<table>
<thead>
<tr>
<th>Day</th>
<th>Topic</th>
<th>Readings/Videos</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Jan 17</td>
<td>Introduction to statistics, Research design, Introduction to $R$</td>
<td>Textbook Readings:&lt;br&gt;- Ch. 1 (all)&lt;br&gt;- Ch. 2 (2.0-2.6)&lt;br&gt;- Ch. 3 (3.0-3.4)&lt;br&gt;Videos:&lt;br&gt;1) Introduction to Statistics&lt;br&gt;<a href="https://www.youtube.com/watch?v=zouPoc49xbk">https://www.youtube.com/watch?v=zouPoc49xbk</a>&lt;br&gt;<a href="https://www.youtube.com/watch?v=sxQaBpKfDRk">https://www.youtube.com/watch?v=sxQaBpKfDRk</a>&lt;br&gt;2) Population vs Sample&lt;br&gt;<a href="https://www.youtube.com/watch?v=jPPF2xSEyKU">https://www.youtube.com/watch?v=jPPF2xSEyKU</a>&lt;br&gt;<a href="https://www.youtube.com/watch?v=VPM84_yfx5Q">https://www.youtube.com/watch?v=VPM84_yfx5Q</a></td>
<td>Assignment 1 handed out on Wednesday</td>
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<td>Date</td>
<td>Topic</td>
<td>Textbook Readings</td>
<td>Videos</td>
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| Jan 31 | Descriptive statistics Introduction to R                                       | Textbook Readings:                                                              | Videos: 1) Central Tendency and Variability  
[https://www.youtube.com/watch?v=b1HEzNTGeZ4](https://www.youtube.com/watch?v=b1HEzNTGeZ4)  
[https://www.youtube.com/watch?v=kn83BA7cRNM](https://www.youtube.com/watch?v=kn83BA7cRNM)  
[https://www.youtube.com/watch?v=E4HAYd0QnRc](https://www.youtube.com/watch?v=E4HAYd0QnRc)  
[https://www.youtube.com/watch?v=R4vNi_8Kqw](https://www.youtube.com/watch?v=R4vNi_8Kqw)  
[https://www.youtube.com/watch?v=vcbMim_1Q8](https://www.youtube.com/watch?v=vcbMim_1Q8)  
[https://www.youtube.com/watch?v=sK0RY-Qkug4](https://www.youtube.com/watch?v=sK0RY-Qkug4)  
2) z-score  
[https://www.youtube.com/watch?v=5S-Zfa-vOXs](https://www.youtube.com/watch?v=5S-Zfa-vOXs)  
3) Correlation  
[https://www.youtube.com/watch?v=Y-M9aD_cCQ](https://www.youtube.com/watch?v=Y-M9aD_cCQ)  
[https://www.youtube.com/watch?v=ROpbD-oRUo](https://www.youtube.com/watch?v=ROpbD-oRUo) | Assignment 1 due on Tuesday midnight  
Assignment 2 handed out on Wednesday                                                                                       |
| Feb 7  | Probability Introduction to R                                                  | Textbook Readings:                                                              | Videos: 1) Permutation and Combination  
[https://www.youtube.com/watch?v=eoxbgUIYhHo](https://www.youtube.com/watch?v=eoxbgUIYhHo)  
[https://www.youtube.com/watch?v=DRQVHoObeko](https://www.youtube.com/watch?v=DRQVHoObeko)  
[https://www.youtube.com/watch?v=iKy-d5_erhl](https://www.youtube.com/watch?v=iKy-d5_erhl)  
2) Experiment, Sample Space and Event  
[https://www.youtube.com/watch?v=XhVBJSvhPys](https://www.youtube.com/watch?v=XhVBJSvhPys)  
[https://www.youtube.com/watch?v=5oI8-iQPA1](https://www.youtube.com/watch?v=5oI8-iQPA1)  
3) Rules of Probability  
[https://www.youtube.com/watch?v=LS_ihDKr2M](https://www.youtube.com/watch?v=LS_ihDKr2M)  
[https://www.youtube.com/watch?v=7agTv9nA5k](https://www.youtube.com/watch?v=7agTv9nA5k)  
[https://www.youtube.com/watch?v=OyddY7DlV8](https://www.youtube.com/watch?v=OyddY7DlV8)  
3) Conditional Probability and Bayes’ Theorem:  
[https://www.youtube.com/watch?v=bgCMjHzXTXs](https://www.youtube.com/watch?v=bgCMjHzXTXs)  
[https://www.youtube.com/watch?v=XQoLV31ZfQ](https://www.youtube.com/watch?v=XQoLV31ZfQ)  
[https://www.youtube.com/watch?v=U85TaXbeIo](https://www.youtube.com/watch?v=U85TaXbeIo)  
[https://www.youtube.com/watch?v=HZGCoVF3YvM](https://www.youtube.com/watch?v=HZGCoVF3YvM)  
- Warning: the last video is hard. Topics unique to this video may appear on the assignment but not on the exams.  
4) Frequentist vs Bayesian  
[https://www.youtube.com/watch?v=GEFxVESQXc](https://www.youtube.com/watch?v=GEFxVESQXc) | Assignment 1 due on Monday midnight  
Assignment 2 handed out on Wednesday                                                                                       |
| Feb 14 | Probability Introduction to R                                                  | Textbook Readings:                                                              | Videos: 1) Random Variables  
[https://www.youtube.com/watch?v=3v9w79Nhsfl](https://www.youtube.com/watch?v=3v9w79Nhsfl)  
[https://www.youtube.com/watch?v=viPPai_9jI](https://www.youtube.com/watch?v=viPPai_9jI)  
[https://www.youtube.com/watch?v=dOr0NKyD31Q](https://www.youtube.com/watch?v=dOr0NKyD31Q) | Assignment 1 due on Monday midnight  
Assignment 2 handed out on Wednesday                                                                                       |
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Textbook Readings</th>
<th>Videos</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>Feb 21</td>
<td>Reading Break</td>
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<td>Assignment 2 due on Tuesday midnight</td>
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<tr>
<td>Feb 28</td>
<td>Midterm Exam</td>
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<td>Assignment 3 handed out on Wednesday</td>
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<tr>
<td>March 7</td>
<td>Estimating from a sample</td>
<td>Ch.9 (9.5-9.7)</td>
<td>1) Normal Distribution <a href="https://www.youtube.com/watch?v=mtbJbDwqWLE">https://www.youtube.com/watch?v=mtbJbDwqWLE</a></td>
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<td>Ch.10 (10.0-10.3)</td>
<td><a href="https://www.youtube.com/watch?v=iYjOViSWXS4">https://www.youtube.com/watch?v=iYjOViSWXS4</a></td>
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<td>2) Law of Large Numbers: <a href="https://www.youtube.com/watch?v=VpuN8vCQ~M">https://www.youtube.com/watch?v=VpuN8vCQ~M</a></td>
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<td>3) Central Limit Theorem and Sampling Distribution of the Mean</td>
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<td><a href="https://www.youtube.com/watch?v=zOry_3_qhDw">https://www.youtube.com/watch?v=zOry_3_qhDw</a></td>
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<td><a href="https://www.youtube.com/watch?v=JNm3M9cqWyc">https://www.youtube.com/watch?v=JNm3M9cqWyc</a></td>
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<td><a href="https://www.youtube.com/watch?v=NYd6wzYkQIM">https://www.youtube.com/watch?v=NYd6wzYkQIM</a></td>
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<td><a href="https://www.youtube.com/watch?v=J1twbrHeL3o">https://www.youtube.com/watch?v=J1twbrHeL3o</a></td>
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<td><a href="https://www.youtube.com/watch?v=0ZstEb_8bYc">https://www.youtube.com/watch?v=0ZstEb_8bYc</a></td>
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<td>March 14</td>
<td>Estimating from a sample</td>
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<td>1) Sampling Distribution of Proportion: <a href="https://www.youtube.com/watch?v=fuGwbG9_W1c">https://www.youtube.com/watch?v=fuGwbG9_W1c</a></td>
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<td></td>
<td>Hypothesis testing</td>
<td>Ch.10 (10.4-10.6)</td>
<td>1) Point Estimation <a href="https://www.youtube.com/watch?v=4v41z3HwLaM">https://www.youtube.com/watch?v=4v41z3HwLaM</a></td>
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<td>Note: Ignore the formula for sample variance on page 318; ignore the table on page 319</td>
<td>2) Interval Estimation and Confidence Interval <a href="https://youtu.be/9GtaIHFuEZU">https://youtu.be/9GtaIHFuEZU</a></td>
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<td>Ch.11 (11.0-11.3)</td>
<td><a href="https://www.youtube.com/watch?v=yDEvXB6ApWc">https://www.youtube.com/watch?v=yDEvXB6ApWc</a></td>
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<td>3) Types of Hypothesis and p-value <a href="https://www.youtube.com/watch?v=KS6KEWaoOUE">https://www.youtube.com/watch?v=KS6KEWaoOUE</a></td>
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<td><a href="https://www.youtube.com/watch?v=bf3egy7TQ2Q">https://www.youtube.com/watch?v=bf3egy7TQ2Q</a></td>
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<td><a href="https://www.youtube.com/watch?v=PPD8IER8ju4">https://www.youtube.com/watch?v=PPD8IER8ju4</a></td>
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<tr>
<td>March 21</td>
<td>Hypothesis testing</td>
<td></td>
<td>1) p-hacking</td>
<td>Assignment 3 due on Tuesday midnight</td>
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<td>Assignment 4 handed out on Wednesday</td>
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<td>Date</td>
<td>Topic</td>
<td>Textbook Readings:</td>
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<tr>
<td>March 28</td>
<td>Comparing means</td>
<td>Textbook Readings:</td>
<td>Videos:</td>
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<td></td>
<td></td>
<td>• Ch.13 (13.0-13.5)</td>
<td>1) One-Sample z-test and t-test:</td>
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<td><a href="https://www.youtube.com/watch?v=5ABpqVSx33I">https://www.youtube.com/watch?v=5ABpqVSx33I</a></td>
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<td><a href="https://www.youtube.com/watch?v=HoqzJR8xj4s">https://www.youtube.com/watch?v=HoqzJR8xj4s</a></td>
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<td><a href="https://www.youtube.com/watch?v=tsPv-ffN-0M">https://www.youtube.com/watch?v=tsPv-ffN-0M</a></td>
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<td><a href="https://www.youtube.com/watch?v=NQWZezn41VY">https://www.youtube.com/watch?v=NQWZezn41VY</a></td>
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<td><a href="https://www.youtube.com/watch?v=dDsKP7wVpzM">https://www.youtube.com/watch?v=dDsKP7wVpzM</a></td>
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<td>2) Paired-Samples t-test:</td>
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<td><a href="https://www.youtube.com/watch?v=AGh66ZPpOSQ">https://www.youtube.com/watch?v=AGh66ZPpOSQ</a></td>
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<td><a href="https://www.youtube.com/watch?v=S-BmFzUTDxQ">https://www.youtube.com/watch?v=S-BmFzUTDxQ</a></td>
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<tr>
<td>April 4</td>
<td>Comparing means</td>
<td>Textbook Readings:</td>
<td>Video:</td>
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<td></td>
<td>Categorical data analysis</td>
<td>• Ch.13 (13.6-13.8, 13.11)</td>
<td>1) Chi-Square Distribution:</td>
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<tr>
<td></td>
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<td>• Ch.12 (12.0-12.6, 12.10)</td>
<td><a href="https://www.youtube.com/watch?v=dXB3cUGnaxQ">https://www.youtube.com/watch?v=dXB3cUGnaxQ</a></td>
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<td>2) Pearson Chi-Square Test</td>
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<td><a href="https://www.youtube.com/watch?v=hpWdDmsgdRE">https://www.youtube.com/watch?v=hpWdDmsgdRE</a></td>
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<td>Assignment 4 due on Tuesday midnight</td>
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