MIT809 Research Methods

Lecture 1

Research Ethics & Plagiarism

What is Ethical Research?

- UP Code of Ethics for Research (33 page document)
  - What do you think is in such a document?
- Some general principles of ethical research:
  - Honesty
  - Objectivity (bias, financial interests?)
  - Respect for intellectual property
  - Evaluating risks and benefits
  - Informed consent
  - Right to not participate, withdraw, anonymity
  - Confidentiality
  - …

Plagiarism Pre-test

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Check if you know what plagiarism is:

UP Pre-test

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Plagiarism: Pre-test

So You Think You Know What Plagiarism Is?

Pre-Test Your Knowledge

1. Copying and pasting from the Internet can be done without citing the Internet page, because everything on the Internet is common knowledge and can be used without citation.

○ **True**
○ **False**

2. You don't have to use quotation marks when you quote an author as long as you cite the author's name at the end of the paragraph.

○ **True**
○ **False**

3. When you summarize a block of text from another work, citing the source at the end of your paper is sufficient.

○ **True**
○ **False**

4. If you quote your roommate in an interview, you don't have to cite him/her or use quotation marks.

○ **True**
○ **False**

Plagiarism: Pre-test (cont.)

5. You don't have to cite famous proverbs because they're common knowledge.

- ○ **True**
- ○ **False**

6. If you borrow someone's idea and use it in a paper, you don't have to cite it.

- ○ **True**
- ○ **False**

7. Using a few phrases from an article and mixing them in with your own words is not plagiarism.

- ○ **True**
- ○ **False**

8. Song lyrics don't have to be cited.

- ○ **True**
- ○ **False**

9. If you come across the phrase "era of error" and use it in your paper, you have to cite it.

- ○ **True**
- ○ **False**

10. The date for George Washington's birthday is common knowledge which means you don't have to cite the source in which you found it.

- ○ **True**
- ○ **False**

Plagiarism – UP link

Plagiarism – Paraphrase Self Test

https://commons.wvc.edu/library/Conference%20Presentations/paraphrase.htm

UP Plagiarism Policy Document

4. **DEFINITION OF PLAGIARISM**

Plagiarism is a form of academic misconduct. It involves both appropriating someone else's work and passing it off as one's own work afterwards. The relevant sections of the **Disciplinary Code: Students** read as follows:

"**1.   DISCIPLINARY CODE: STUDENTS**

1.1   DEFINITION OF MISCONDUCT
A student shall be guilty of misconduct and may be dealt with in terms of this code, if he or she …

1.1.4.3   in University context infringes a person's copyright or any other intellectual property right, including but not limited to **plagiarism**;

1.1.4.4   in University context

…

d.   **plagiarises by stating, or implying, original authorship of someone else's written or creative work (words, images, ideas, opinions, discoveries, artwork, music, recordings, computer-generated work), and/or by incorporating such work or material, in whole or in part, into his or her own work without properly acknowledging or citing the source;**

and such act is prejudicial or potentially prejudicial to the University, its reputation, its staff, guests, contractors or students."

UP Plagiarism Policy Document

Plagiarism is the presentation of someone else's work, words, images, ideas, opinions, discoveries, artwork, music, recordings or computer-generated work (including circuitry, computer programs or software, websites, the Internet or other electronic resources) whether published or not, as one's own work, or alternatively appropriating the work, words, images, ideas, opinions, discoveries, artwork, music, recordings or computer-generated work (including circuitry, computer programs or software, websites, the Internet or other electronic resource) of others, without properly acknowledging the source, with or without the source's permission.

It is not a requirement for plagiarism that a person must have intended to deceive or to plagiarise. At the University it is simply assumed that where certain plagiarised elements are found in a text, the author intended them to be there, and that where paraphrasing is the issue, the author intended this as a disguise for more obvious plagiarism such as unattributed verbatim copying. The absence of intent might be a fact to take into consideration when a suitable penalty for plagiarism has to be decided on in a given situation.

UP Plagiarism Policy Document

Examples of what should be avoided:
- direct copying without crediting the source
- translating without crediting the source
- paraphrasing someone else's work without crediting the source
- piecing together sections of the work of others into a new whole
- knowingly allowing another student to copy one's work
- resubmitting one's own or other's previously graded work
- collusion (unauthorised collaboration, presenting work as one's own independent work, when it has been produced in whole or in part in collusion with other people)
- ghost-writing – you should not make use of ghost writers or professional agencies in the production of your work or submit material which has been written on your behalf

Turnitin

- Electronic plagiarism detection software service

- Used all over the world

- Assignments submitted to Turnitin via UP are added to the global Turnitin database

- Turnitin does not assess plagiarism, but generates an "originality report" with percentage of overlap, which requires a human decision

ORIGINALITY REPORT

47 %	43 %	6 %	36 %
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	www.esecuritytogo.com Internet Source	8%
2	goarticles.com Internet Source	7%
3	www.esecurityplanet.com Internet Source	5%
4	securitytechnet.com Internet Source	4%
5	Submitted to University of Pretoria Student Paper	4%
6	Submitted to Colorado Technical University Online Student Paper	4%
7	www.just.edu.jo Internet Source	4%
8	spamlaws.com Internet Source	3%
9	Submitted to Rush University Student Paper	2%
10	Submitted to University of Southern Queensland Student Paper	2%
11	wiredgorilla.com Internet Source	2%
12	Submitted to Kaplan College Student Paper	1%
13	Submitted to Golden Gate University Student Paper	1%

UP Plagiarism Penalty Scale

PLAGIARISM PENALTY SCALE						
DEGREE OF SERIOUSNESS	1st YEAR, 1st INCIDENT	1st YEAR, 2nd INCIDENT	OTHER UNDERGRADUATE, 1st INCIDENT	OTHER UNDERGRADUATE, 2nd INCIDENT	3rd OR FURTHER INCIDENT (1st years & other undergraduates)	POSTGRADUATE
SERIOUS *(More than 20% of text 'lifted')*	• Cancellation of mark	• Cancellation of mark	• Cancellation of mark	• Cancellation of mark	• Disciplinary hearing	• Disciplinary hearing
	• Opportunity to resubmit	• *No* opportunity to resubmit	• Opportunity to resubmit	• *No* opportunity to resubmit		
	• Note on student's record	• Note on student's record	• Note on student's record	• Note on student's record		
	• Student has to attend library training		• Student has to attend library training			
MODERATE *(More than 10%, but less than 20% of text 'lifted')*	• Warning	• Cancellation of mark	• Cancellation of mark	• Cancellation of mark	• Disciplinary hearing	• Disciplinary hearing
		• Opportunity to resubmit	• Opportunity to resubmit	• *No* opportunity to resubmit		
	• Note on student's record	• Note on student's record	• Note on student's record	• Note on student's record		
	• Student has to attend library training		• Student has to attend library training			
MINOR *(Less than 10% of text 'lifted')*	• Warning	• Cancellation of mark	• Cancellation of mark	• Cancellation of mark	• Disciplinary hearing	• Disciplinary hearing
		• Opportunity to resubmit	• Opportunity to resubmit	• Opportunity to resubmit		
	• Note on student's record	• Note on student's record	• Note on student's record	• Note on student's record		
	• Student has to attend library training		• Student has to attend library training			

Disciplinary hearing

- The department is required to refer all cases of postgraduate students (not resolved within the department)

- Form with proof is submitted to Disciplinary Committee

- If student is found guilty, the committee decides on a penalty, for example:

ORDER OF THE DISCIPLINARY COMMITTEE (STUDENTS)

The disciplinary charge/s against you, as per the charge sheet dated 31 August 2012 and attached hereto, are herewith freely and voluntary and after careful consideration by both parties settled in full and made an order of the Disciplinary Committee (Students) on this 28th day of September 2012:

1. You are found guilty of misconduct.

2. You forfeit all credits obtained in MIT 842 (Computer Science in Perspective).

3. You are expelled from the University for a period of one year, effective from the beginning of the second semester 2012. In order to resume your studies at the University at the beginning of the second semester 2013, you will have to apply for re-admission to the University as well as the relevant faculty.

Why do People Plagiarise?

- Under pressure to submit something
- Taking notes verbatim and then forgetting the source
- Not understanding the original properly, so "safer" to just use the words as they are (particularly in coding!)
- Not knowing how to cite properly
- You tell me …

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Revisiting the Plagiarism Pre-test

How did you do?

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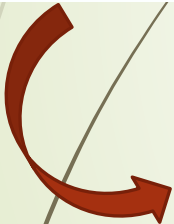# How to Avoid Plagiarism: Paraphrasing and Summarizing

Handout & Discussion

Discussion of plagiarism through examples

…from real Honours project proposals

Example: Is this Plagiarism?

In 2013, Palumbo and Verga [9] proposed integration approaches to integrate Moodle with Office suite to provide a multi-purpose and a flexible functionality of the OpenOffice.org such as: calculation, plots and diagrams by means of spread sheets or graphical application. They selected Moodle and OpenOffice.org to integrate them because of the simple and effective manner of coding style. They used Java and AJAX with XML to create a java applet which was embedded in the web page of new Moodle modules. By using these tools, students could save their work on one or more temporary files on the Moodle server. Also, they could export or import their work from a local system, edit and view their files and submit their assignments.

The source identified by Turnitin

Extending the Functionality of LMS to Support Computer Science Education Using Plug-in Tools

Zuhoor A. Al-Khanjari and Yusra M. Al-Roshdi
Department of Computer Science, College of Science, Sultan Qaboos University
Muscat, Oman
Email: zuhoor@squ.edu.om and m095653@student.squ.edu.om

In 2013, Palumbo and Verga [5] proposed integration approaches to integrate Moodle with Office suite to provide a multi-purpose and a flexible functionality of the OpenOffice.org such as: calculation, plots and diagrams by means of spread sheets or graphical application. They selected Moodle and OpenOffice.org to integrate them because of the simple and effective manner of coding

Example: Is this Plagiarism?

> 7
>
> UML, along with the Meta Object Facility (MOF) also provides a key foundation for OMG's Model-Driven Architecture, which unifies every step of development and integration from business modeling, through architectural and application modeling, to development, deployment, maintenance and evolution. UML is a generic language that can be mapped onto

Internet source — Full Source View

www.roseindia.net

d Modeling Language™ - UML - is OMG's most-used specification, and the way the world models not only application structure, behavior, and architecture, but also business process and data structure. UML, along with the Meta Object Facility (MOF™), also provides a key foundation for OMG's Model-Driven Architecture®, which unifies every step of development and integration from business modeling, through architectural and application modeling, to development, deployment, maintenance, and evolution. OMG is a not-for-profit computer industry specifications consortium;our members define and maintain the UML specification which we publish in the series of documents linked on this page for your free downloa

Example: Is this Plagiarism?

It is very important for learning purposes that educational software have elements of intrinsic motivation to keep the learners interested and to facilitate learning. "Intrinsic motivation is when a person undertakes an activity for its own sake, for the enjoyment it provides, the learning it permits, or the feeling of accomplishment it evokes" Karl M Kapp (2012, p52). Habgood, MP Jacob &

Example: Is this Plagiarism?

meta-model using MDA technologies such as EMOF (Essential Meta Object Facility) and OCL (Object Constraint Language). On the other hand, MDD is a paradigm to automate the generation of boiler-plate code. Raising the abstraction level enables to focus on the domain details and separate the implementation details. This brings a number of specific benefits such as productivity, reduced cost, portability, drops in time-to-market, and improved quality [5].

Internet source   Full Source View
www.struji.com

odels assist developers during the entire development life cycle to pre- cisely capture and represent relevant aspects of a system from a given perspective and at an appropriate level of abstraction. MDD is a paradigm to automate the generation of boiler-plate code. Rais- ing the abstraction level enables to focus on the domain details and separate the implementation details. This brings a number of specic benets such as produc- tivity, reduced cost, portability, drops in time-to-market, and improved quality. Overall, the main economic driver is the productivity gain achieved, which is reported by some studies [14,19]. A key artifact in MDD is a model transformation that denes the mappings between a mod

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Example: Is this Plagiarism?

Fig 1

A Gantt chart provides a graphical illustration of a schedule that helps to plan, coordinate, and track specific tasks in a project (Rouse, 2007). The following phases are going to be followed project proposal, introduction, planning, analysis, design, implementation, maintenance documentation and it is going to be done in ten week.

6 Submitted to Midlands ... 2%
   Student paper

Student paper
Submitted to Midlands State University

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Note: Rouse, 2007 reference was not in the list of references at the end of the proposal.

Example: Is this Plagiarism?

1 Introduction

Graph theory is one of the fundamental pillars of discrete mathematics and has developed into a substantial body of knowledge with countless applications in the fields of science and engineering.

Publication   Full Source View ⊗

Wenjun Xiao. "Extended clustering coefficients:Generalization of clustering coeffic…

stributed through transportation networks, both in living organisms, man-made infrastructures, and in many physical systems such as the power grids. The study of networks, in the form of mathematical **graph theory, is one of the fundamental pillars of discrete mathematics, and** during the twentieth century graph theory has developed into a substantial body of knowledge. So a network can look as a graph G = (V, E) which has a set V of N vertices or nodes and a set E of M ed

Example: Is this Plagiarism?

```
7
while i ≤ n do
    begin
            ch ←T[i]
            if ch ← lastch then
                        if T[i - m + 1 ... j]= P then
                            return i - m + 1
                i ←i + delta12[ch]
    end;
return 0;
```

Algorithm 5 : The Boyer-Moore Horspool Algorithm

Example: Is this Plagiarism?

network and expose a programming model that abstracts distributed group-by-aggregation operations [25]. For a long time, relational database systems have been the best technology to manage and analyze large data. Relational database systems are not flexible and efficient enough to manage and analyze large collections of semi-structured data files, although they offer some basic text processing capabilities [18].

Internet source   Full Source View

www.researchgate.net

[Database Management]: Systems—Query process- ing; H.2.7 [Database Management]: Database adminis- tration—Data Warehousing General Terms Algorithms, Design, Languages, Performance 1. INTRODUCTION For a long time, relational database systems have been the best technology to manage and analyze large data ware- houses. On the other hand, there has been an explosion of semi-structured data on the Internet represented by docu- ments, web pages, images and diverse files, which are stored and queried by

1. INTRODUCTION

For a long time, relational database systems have been the best technology to manage and analyze large data ware-houses. On the other hand, there has been an explosion of semi-structured data on the Internet represented by docu-ments, web pages, images and diverse files, which are stored and queried by search engines. Relational database systems offer extensive functionality to efficiently and reliably update OLTP databases with transactions and to analyze large data warehouses with queries using SQL [2]. However, relational database systems are not flexible and efficient enough to manage and analyze large collections of semi-structured data files, although they offer some basic text processing capabil-ities. Thus there have been many alternative database tech-nology proposals to solve such limitations [2]. (e.g. XML,

Example: Is this Plagiarism?

> **3**
> "Research is to see what everybody else has seen, and to think what nobody else has thought" - Albert Szent-Gyorgyi

Internet source — Full Source View ⊗
meds.queensu.ca

hesis Rejected How to have a successful research career ◆Choose mentors wisely ◆Seek opportunities for collaboration ◆Be persistent ◆Maintain a research focus ◆And always remember STOP 4 "**Research is to see what** everyone **else has seen, And to think what nobody else has thought." Albert Szent-Gyorgyi 5**

Using TurnItIn

- TurnItIn should not be used to write your text
- First write it in your own words
- Then check your plagiarism level with TurnItIn
- Use it only as a guide for your level of plagiarism
- Aim for a total percentage of < 10%

References

- CBB Plagiarism Resource Site: http://abacus.bates.edu/cbb/quiz/intro/integrity.html

- The University of Southern Mississippi, Plagiarism Tutorial:

  http://www.lib.usm.edu/legacy/plag/

- University of Pretoria Plagiarism Website: http://www.library.up.ac.za/plagiarism/index.htm