

Chapter 2:

Ethical Principles in Research

- Res1: Research in Daily Life 1
 - STEM Strand

Something to think about...

- Bea Key and Bhea Wack, both seniors at a prominent school in Manila, meet weekly for lunch. “I can’t believe it,” Bea Key says.

Something to think about...

“What’s the matter?” replies Bhea Wack.

Something to think about...

“Professor Nimfa Bebe says that we have to participate in one of her research projects if we want to pass her course. She says it is a course requirement. I don’t think that’s right, and I’m pretty upset about it. Can you believe it?”

Something to think about...

“Wow! Can she do that? I mean, is that ethical?”

The Story of Moustached Kingfisher

American scientist tracks down one of world's rarest birds and then KILLS IT for 'research'

- Chris Filardi, director of Pacific Programs at The Museum of Natural History found and killed a male moustached kingfisher last month
- Dr. Filardi’s choice to kill the bird has divided the scientific community over the morality of killing animals for research
- Dr. Filardi argued that the bird is common in the Solomon Islands where he found it but other scientists say the bird is endangered

The Story of Moustached Kingfisher



Chris Filardi and the Moustached Kingfisher



The Story of Black Shama Bird



The Story of Black Shama Bird



Share us what you know...

• *What is ethics?*

Ethics

- Ethics in research refers to the standards on what is morally right or wrong.

Two General Intellectual Approaches to Ethical Problems

- Deontological Theory;
and
- Consequentialist Approach

Deontological Theory

- The deontological theory contents that “morals ought to be based on obligations to others” (Burnham, Gilland, Grant and Layton-Henry. 2004, p.252).

Consequentialist Approach

- The consequentialist approach argues that “people should seek to act in accordance with the consequences of their behavior and minimize suffering and maximize well-being” (Burnham, Gilland, Grant and Layton-Henry. 2004, p.252).

Ethical Principles in Research

Five Basic Ethical Principles

Five Basic Ethical Principles

- (1) *Beneficence or the avoidance of harm*—researchers ought to seek to do good rather than harm;

Protecting Participants from Harm

- It is a fundamental responsibility of every researcher to do all in his or her power to ensure that participants in a research study are protected from physical or psychological harm, discomfort, or danger that may arise due to research procedures.

Did you know?

- A further responsibility in protecting individuals from harm is obtaining their consent if they may be exposed to any risk.

Protecting Participants from Harm

- Three (3) important ethical questions to ask about harm in any study are:

Protecting Participants from Harm

- (1) Could people be harmed (physically or psychologically) during the study?

Protecting Participants from Harm

- (2) If so, could the study be conducted in another way to find out what the researcher wants to know?

Protecting Participants from Harm

- (3) Is the information that may be obtained from this study so important that it warrants possible harm to the participants?

Five Basic Ethical Principles

- (2) **Veracity or the avoidance of deception**—researchers ought to tell the truth and keep promises;

Should Subject Be Deceived?

- Current professional guidelines in avoiding deception of subjects/participants:

Should Subject Be Deceived?

- (1) Whenever possible, a researcher should conduct the study using methods that do not require deception.

Should Subject Be Deceived?

- (2) If alternative methods cannot be devised, the researcher must determine whether the use of deception is justified by the prospective study's scientific, educational, or applied value.

Should Subject Be Deceived?

(3) *If the participants are deceived, the researcher must ensure that they are provided with sufficient explanation as soon as possible.*

Should Subject Be Deceived?

- Perhaps the most serious problem involving deception is what it may ultimately do to the reputation of the scientific community.

Five Basic Ethical Principles

- (3) ***Privacy or autonomy***—individuals have a right to limit access to information about themselves;

Five Basic Ethical Principles

- (4) ***Confidentiality***—closely related to the notion of privacy, the right to control the use of information about themselves;

Ensuring Confidentiality of Research Data

- The names of the individual subjects should never be used in any publications that describe the research. And all participants in a study should always have the right to withdraw from the study or to request that data collected about them not be used.

Five Basic Ethical Principles

- (5) Ethical procedures can be clarified by consulting ethical guidelines of professional associations putting emphasis on informed consent.

Ethical Principles in Research

Research with Children

Research with Children

- *Studies using children as participants present some special issues for researchers.*

First Issue:

- *Informed consent of parents or of those legally designated as caretakers is required for participants defined as minors.*

Second Issue:

- *Researchers do not present themselves as diagnosticians or counselors in reporting results to parents, nor do they report information given by a child in confidence.*

Third Issue:

- *Children may never be coerced into participation in a study.*

Fourth Issue:

- *Any form of remuneration for the child's services does not affect the application of these (and other) ethical principles.*

Some Research Ethics Rules

Some Research Ethics Rules

- *What are the different ethical considerations we need to consider in conducting research?*

(1) Be Honest

- As researchers, we should maintain intellectual honesty in all times especially in reporting findings in our investigations.

(2) Be Objective

- Being objective means avoiding bias in research at all times.

(3) Be a Person of Integrity

- We should be consistent with all our thoughts and actions.

(4) Be Caring

- Let us handle our subjects with care and concern. We should be after the welfare and benefit of our subjects.

(5) Be Open

- Be willing to share your ideas, results, and resources.

(6) Be Respectful

- Ideas of others must be acknowledged.

(7) Be Trustworthy

- We should keep the confidentiality of all data and information contained in our research unless otherwise needed to be known by the public.

(8) Be Responsible

- Consider the legalities, rules, and regulations of an institution or government when conducting a study.

Ethical Principles in Research

Rights of Human Research Participants

Rights of Human Research Participants

- When research deemed it necessary to have human as participants, the following rights of participants must strictly observed.*

(1) Right to Voluntary Participation

- All human participants should participate in a research study out of his free will.

Coercion

•It refers to the act of forcing individual to participate in a research endeavour by using threats, rewards, or intimidation.

(2) Right to Informed Consent

•All participants must know all things about the research they will be participating in.

Informed Consent or Consent

•It refers to a written agreement signed by a human participant informing the researcher of his/her willingness or his/her reluctance to participate in an experimental procedure.

(3) Right to be Protected from Harm

•It is the researcher's responsibility to protect the participants from any form of harm that may affect them.

(4) Right to Confidentiality

•It is the researcher's duty to secure all details about the participant and not to disclose it to anyone not involved in the research study.

(5) Right to Anonymity

•The participant may choose not to disclose his/her identity to anyone including the researchers themselves.

Ethical Principles in Research

Scientific Misconduct

Something to think about...

•The scientific way of doing things are not considered resulting to scientific misconduct.

Scientific Dishonesty

•It is when we deviate from the universally accepted behaviour of conducting research committing scientific dishonesty.

Areas of Scientific Dishonesty

1. Fabrication and falsification of data;
2. Non-publication of data;
3. Faulty data-gathering procedures; and
4. Plagiarism.

Fabrication and Falsification of Data

- This is sometimes called as “cooking the data.” Here, data are produced without actual experimentation or the data is altered in recording.

Non-Publication of Data

- In contrast with the first, this time, instead of making up data that will support the hypotheses, the researcher choose not to include the data gathered from the participants which do not conform to the hypotheses.

Faulty Data-Gathering Procedures

- This can be brought by errors in measurements or errors in the measuring instruments, like faulty measuring equipment.

Plagiarism

- This refers to using ideas of others as your own.

Ethical Principles in Research

Plagiarism

Plagiarism

- Plagiarism is an act of owning one's ideas, work, or publication as your own.

Did you know?

- *An act of plagiarism would seem to be easy to recognize based on simple criteria: Is the work the author's own creation and written in the author's own words? If not, does the writing provide appropriate credit to previous work?*

Types of Plagiarism

1. Clone
2. Ctrl + C
3. Find-Replace
4. Remix
5. Recycle
6. Hybrid (Copy-Paste)
7. Mash-up
8. 404 Error
9. Aggregator
10. Re-tweet

Clone

- An act of submitting other's work, word-for-word, as one's own.

Rank 1: Clone

#1 Clone: *Submitting another's work, word-for-word, as one's own* Frequency 9.5 Problematic 9.5

Original	Unoriginal
A Natural Setting A History of Exploration and Settlement in Yosemite Valley Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.	A Natural Setting A History of Exploration and Settlement in Yosemite Valley Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

Plagiarized

Ctrl + C (Copy-Paste)

- A written piece that contains significant portions of text from a single source without alterations.

Rank 2: Ctrl + C (Copy-Paste)

#2 CTRL-C: *Contains significant portions of text from a single source without alterations* Frequency 8.9 Problematic 7.4

Original	Unoriginal
A Natural Setting A History of Exploration and Settlement in Yosemite Valley Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.	A Natural Setting A History of Exploration and Settlement in Yosemite Valley From the time of its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of nature. And Yosemite holds a special grip on the western mind, while perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

Plagiarized

Find-Replace

- The act of changing key words and phrases but retaining the essential content of the source in a paper.

Rank 3: Find-Replace

#3 Find-Replace: *Changing key words and phrases but retaining the essential content of the source.* Frequency 3.9 Problematic 1.2

Original	Unoriginal
A Natural Setting A History of Exploration and Settlement in Yosemite Valley Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.	A Beautiful Setting in Yosemite Since its first discovery by non-indigenous people in the mid-19 th century, Yosemite Valley has held a special, even sacred, hold on the American psyche because its beauty makes it an incomparable valley and one of the grandest of all special temples of nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing political movements, migration patterns and environmental issues as man has become more attuned to their relationship and impact on nature.

Plagiarized

Remix

- An act of paraphrasing from other sources and making the content fit together seamlessly.

Rank 4: Remix

#4 Remix: *Paraphrases from multiple sources, made to fit together* Frequency 5.6 Problematic 1.5

Original	Unoriginal
A Natural Setting A History of Exploration and Settlement in Yosemite Valley Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.	An Untouched View A History of Exploration and Settlement in Yosemite Valley This first view makes it so that Yosemite Valley was a special member of the list of majestic natural objects that the nation had come to cherish. Since its discovery in 1841, the first description of Yosemite came about 30 years later. From the start, the valley has been renowned for its natural beauty, and highly regarded by the participants of Yosemite National Park, among the sources from which the word "wild" has become a special part of the western mind. Perceptions about the valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

Plagiarized

Recycle

- The act of borrowing generously from one's own previous work without citation. This is also called *self-plagiarism*.

Rank 5: Recycle

#5 Recycle: *Borrows generously from writer's previous work without citation*

Frequency  5.5
Problematic  2.8

Original Unoriginal

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

Ecology 201:
An Unnatural Expectation
The Impact of Exploration and Settlement in Yosemite Valley

From its first discovery by the Archaic Indians in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time reflecting changing politics, human migration patterns and the rise of environmental concerns as man has become more attuned to his relationship and impact on nature.

Plagiarized

Hybrid

- The act of combining perfectly cited sources with copied passages—without citation—in one paper.

Rank 6: Hybrid

#6 Hybrid: *Combines perfectly cited sources with copied passages without citation*

Frequency  .5
Problematic  1.1

Original Unoriginal

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

Yosemite Valley "Wilderness" Wilderness Study Act, 2002
National Archives and Records Administration

Plagiarized

Improperly Cited

Mash-up

- A paper that represents a mix of copied materials from several different sources without proper citation.

Rank 7: Mash-up

#7 Mash-up: *Mixes copied material from multiple sources*

Frequency  9.1
Problematic  4.4

Original Unoriginal

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience. The work of *Aunt* gave existence to an appreciation for Yosemite Valley and Yosemite's history and the environmental impact of the valley. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature. The California Gold Rush led to conflicts between miners and natives and the volunteer fire department was formed by the state of California to punish expedition against natives in the Yosemite area.

Plagiarized

Paraphrased from another source with no citation

404 Error

- A written piece that includes citations to nonexistent or inaccurate information about sources.

Rank 8: 404 Error

#8 404 Error: *Includes citations to existent or inaccurate information about sources*

Frequency  6.0
Problematic  1.3

Original Unoriginal

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

"Since its first discovery by the Jacob Walker Party in the mid-nineteenth century," Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature."

Incorrect information about sources

"The original discovery of Walker's expedition, including several descriptions of their first sight of Yosemite Valley, was published in the *Golden Era*, Vol. 4, 1851, p. 1167.
Citation: B. "Gold Discoveries: The First of the Pacific Coast." *West Coast* 4 (1851): 1167.
Citation: M. "Trails, Trails, and Trails." *California* 10 (1851): 107.
Citation: M. "Trails, Trails, and Trails." *California* 10 (1851): 107.

Aggregator

- The paper includes proper citation, but contains almost no original work.

Rank 9: Aggregator

#9 Aggregator: *Includes proper citation to sources but the paper contains almost no original work*

Frequency  2.8
Problematic  2.9

Original Unoriginal

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

Yosemite Valley was first sighted by man in 1851 by Joseph Redd and William Lewis. The first exploration of the valley was made by the first expedition to the valley in 1851. The valley has held a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

Forest of National Parks. *Journal of Forestry*, 21, 1923, 462-474.
"History of the Redd Expedition." *California*, 10, 1851, 107.
<http://www.yosemitepark.com/ehp/ehp.html>
"Yosemite Valley." *California*, 10, 1851, 107.
"Yosemite Valley." *California*, 10, 1851, 107.
"Yosemite Valley." *California*, 10, 1851, 107.

Plagiarism

Incorrect citations and paper contains little original work

Re-tweet

- This paper includes proper citation, but relies too closely on the text's original wording and/or structure.

Rank 10: Re-tweet

#10 Re-tweet: Includes proper citation, but relies too closely on the text's original wording and/or structure

Frequency 4.4
Problematic 0.5

Original

Unoriginal

A Natural Setting
A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-Indigenous people in the mid-nineteenth century, Yosemite Valley had held a special place in the American imagination. Its beauty makes it an incomparable valley and one of the grandest of all special places of nature. With a history that holds a special place in the American mind, the setting of Yosemite Valley has evolved over time due to changing politics, migration patterns and environmental concerns. It must be the same as what we believed to be the original impact on nature.

A History of Exploration and Settlement in Yosemite Valley

From its earliest discovery by non-Indigenous people in the mid-nineteenth century, Yosemite Valley has held a special place in the American imagination, its beauty is incomparable and has been held up as one of the grandest of all special places of nature. With a history that holds a special place in the American mind, the setting of Yosemite Valley has evolved over time due to changing politics, migration patterns and environmental concerns. It must be the same as what we believed to be the original impact on nature.¹

¹ Smith, J. "A History of Settlement in Yosemite Valley" (2008). 41-50. P. 41.

Proper citation but is too close to the original

You are plagiarizing...

- When you cut and paste someone else's words without a citation, you are plagiarizing.

You are plagiarizing...

- When you ask your parents or someone else to edit your work inserting their ideas instead of yours, you are plagiarizing.

You are plagiarizing...

- When you use the same paper for two or more classes (without permission from your professor), you are plagiarizing.

You are plagiarizing...

- When you turn in someone else's paper as your own or when you purchase a paper from another student or from an online research or term paper company, you are plagiarizing.

You are plagiarizing...

- When most of your paper is citations and contains very little of your own work, you are plagiarizing.

You are plagiarizing...

- When you mix copied material from numerous sources, so the citations are not accurate, you are plagiarizing.

You are plagiarizing...

- When you list citations to sources that do not exist, you are plagiarizing.