Authorship

1 Introduction

- Questions from last time...
- Announcements
- Outline for this week. This week again focuses on an area where mathematics diverges significantly from the STEM mainstream. In general, mathematicians are much more likely to solo author papers and joint papers have their authors ordered alphabetically. The Hardy–Littlewood rules serve as hyperbolic guidance for mathematical collaboration.

1.1 Warm–up: Homework in the age of the internet

- Discuss Budney MO Question
- Ask for solutions
- Ask for ethical issues in web searching for answers
- What about posting the questions on the internet?
- Discuss ethics of Professors posting false internet answers (on Yahoo)
- Must professors reference exercizes?
- Make note about professor's approaches at Darmouth (exams as learning experiences)

1.2 Warm–up: Tai's Method

- Describe original paper
- What should the journal have done?
- What did the journal do?
- What should Tai's response have been?
- How often does this happen?

1.3 Warm–up: President Obama's JAMA paper

- Lay out situation
- Ask about ethical issues
- Does it matter that it was an editorial?

2 Publication Discussion

- Why do we publish papers?
- What different benefits accrue to different groups?
- How to balance the necessary with the pragmatic?
- Is the current publication system ethical?
- Why preprints? (again who benefits and how)
- Point out 3 preprints more cites than anything else
- Cost of knowledge boycott
- Open access policies?
- How does the publication process work – have students make list.
- Problems with LPUs? (in math)

3 Authorship Discussion

- Who gets to be an author?
- Check the 4 parts of ICMJE standards
- Are these requirements sufficient? Necessary?
- What about funding?
- Author ordering

3.1 Hardy–Littlewood

- Go through axioms – are they ethical?
- Can they be modified to be ethical?
- Other features of good collaboration?
- Is collaboration necessary? (in mathematics)

4 Peer Review

- What is the purpose of peer review?
- What factors do peer reviewers take into consideration (whatever the Journal tells them Computational Chemistry Example)
- Why confidentiality?
- Ethical considerations in peer review?

4.1 Conflicts of Interest

- What is a conflict of interest?
- How to manage?
- Is it possible to avoid entirely?
- Who decides?

5 Plagiarism

- What is plagiarism
- Why does it matter
- Consequences?
- Self–plagiarism?

5.1 Other Cheating

- Discuss other types of cheating
- How prevalent are these in academia?
- Discuss Dartmouth Honor Code
- No bystanders!

5.2 Copyright

Most of this discussion will occur next week but still want to ask some questions

- "Is there a difference between plagiarism and copyright infringement?"
- What is the difference?
- Specific examples (homework)
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6 Case Studies

6.1 Authorship Case Studies

Drawn from both COPE and recent Retraction Watch cases. These situations mostly fit more closely into the moustache twirling villian mode of discussion. This is not a bad thing, as there are so many possible things that can go wrong with these.

- Have students read
- Evaluate in terms of previous discussion
- Shorter discussions – focus on other people in the situations who could have