**Task 1:**

Description: Find a list of papers that use Deep Learning for Multi-Messenger Astronomy.

Approach:

* Develop a criteria for “worthiness” of paper
* Narrow candidate papers as much as possible
* Evaluate based on criteria list developed

Criteria List:

1. Sound research question
   1. F(feasible) I(interesting) N(novel) E(ethical) R(relevant) from Cummings et al
2. systematic, appropriate research methodology
3. Proper data analysis methods
4. Representative and generalizable
5. Guided by logic
6. External validity
7. Replicable, reproducible, and transparent
8. Acknowledges limitations and provides suggestions for future research
9. ethical

Sources:

<https://research.com/research/top-10-qualities-of-good-academic-research>

Cummings, S. R., Browner, W. S., & Hulley, S. B. (2013). Conceiving the research question and developing the study plan. *Designing clinical research*, *4*, 14-22. [Wolters Kluwer Health](https://bjcancer.org/Sites/Uploaded/File/2016/11/306361609431156678937582961.pdf)

**Task 2**

Same as Before

* Contact Professor Weekly
* If papers are found => let professor know