

# Research Project Discussion



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Goddard Space Flight Center

ASTR 288C, Lecture 12, 2017/11/20

# Happy 13<sup>th</sup> Birthday Swift!



Figure credit: PSU webpage



Cake Credit: Judith Racusin

# Panel review

- Time: last two days
- Including a volunteer external reviewer
- Results: each person will receive a report, including strength and weakness.
  - General strength: clear steps of the proposed method
  - General weakness: detail descriptions of statistical analysis
  - 3 accepted proposal
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If you plan to use more than 40 G, please

(1) send me an email!

(2) use the directory /ursa2nb/A288C/<your\_username>



THE ACCEPTED  
PROPOSALS ARE....

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# Accepted proposals

- Investigating the Relation Between Extremely Energetic Events, Gamma Ray Bursts, and Gravitational Waves

Principle Investigator: Ernesto Benitez (UMD)

- Spectral Evolution of Short Gamma-Ray Bursts

Principle Investigator: Benjamin Flaggs (UMD)

- Comparing the Count Rates Between Long and Short Gamma Ray Bursts

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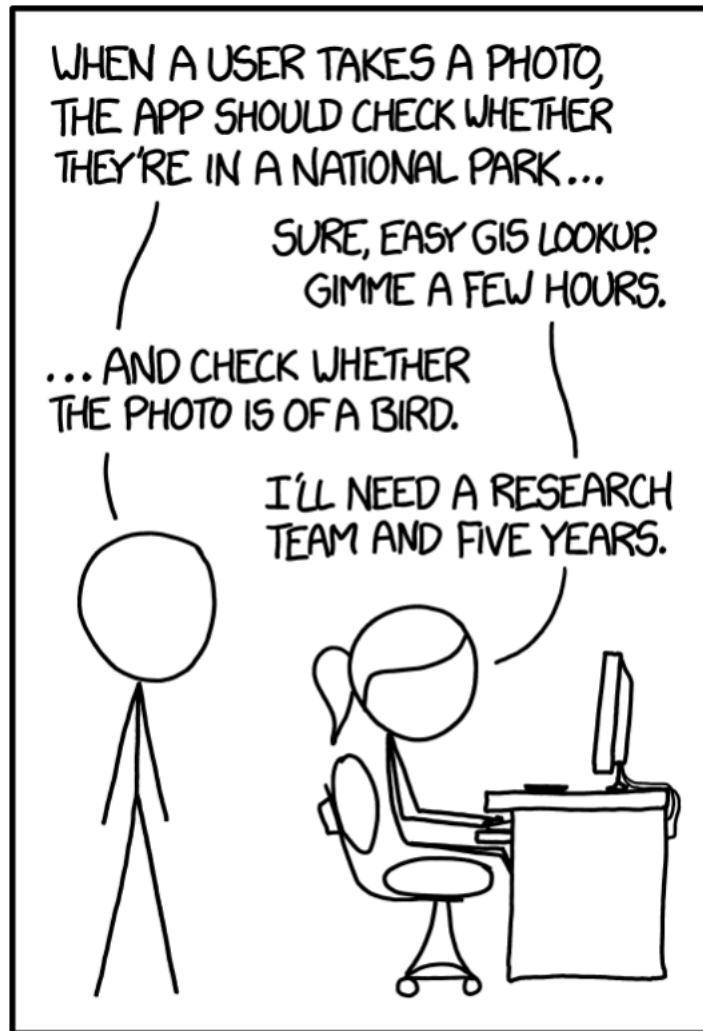
- Comparing the Count Rates Between Long and Short Gamma Ray Bursts

Principle Investigator: Kevin Hall (UMD)

Special Prize of creativity: Searching for Short Gamma Ray Bursts and Companion Gravitational Waves

Principle Investigator: Matthew Kingsland (UMD)





IN CS, IT CAN BE HARD TO EXPLAIN  
THE DIFFERENCE BETWEEN THE EASY  
AND THE VIRTUALLY IMPOSSIBLE.

# This week's homework

## - Proposal

Date	Lecture	Lab
11/13	Spectral analysis - XRT	Spectral fitting (Submit final proposal)
11/20	Scientific proposal	Discuss student proposal (Project start)
11/27	Dedicated time for research projects	Individual research
12/04	Science communication	Individual research (Paper draft by 11:59p)
12/11	Dedicated time for research projects	Individual research
12/15	Oral presentation	(Final paper submission)

- This project needs to be finished in  $\sim 3$  weeks
  - Each week for the individual research, we will review your work schedule.
  - Turn in the paper draft (no need to be complete) in two weeks for a referee review.

# Goddard internship opportunity

- NASA OSSI
  - <https://intern.nasa.gov/ossi/web/public/guest/searchOpps/>
  - <https://intern.nasa.gov/ossi/web/students/login/>
  - <https://intern.nasa.gov/ossi/web/public/main/index.cfm>
  - Deadline for summer intern: 03/01/2018
- Goddard CRESST

# screen

- a useful command for your project
- screen – open a screen in terminal
- exit – terminate the screen
- Ctrl+a+d – detach the screen, it is still active in the background
- screen -r <screen\_number> - Re-engage the screen

You can run things in the background with your laptop shut down!