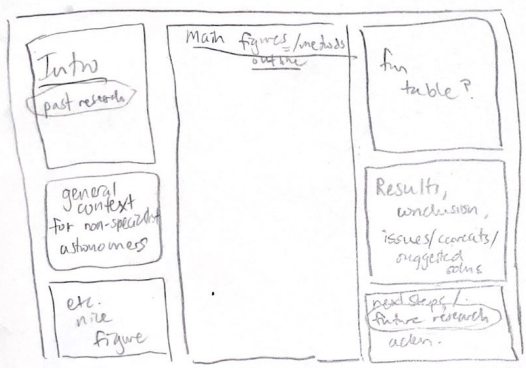
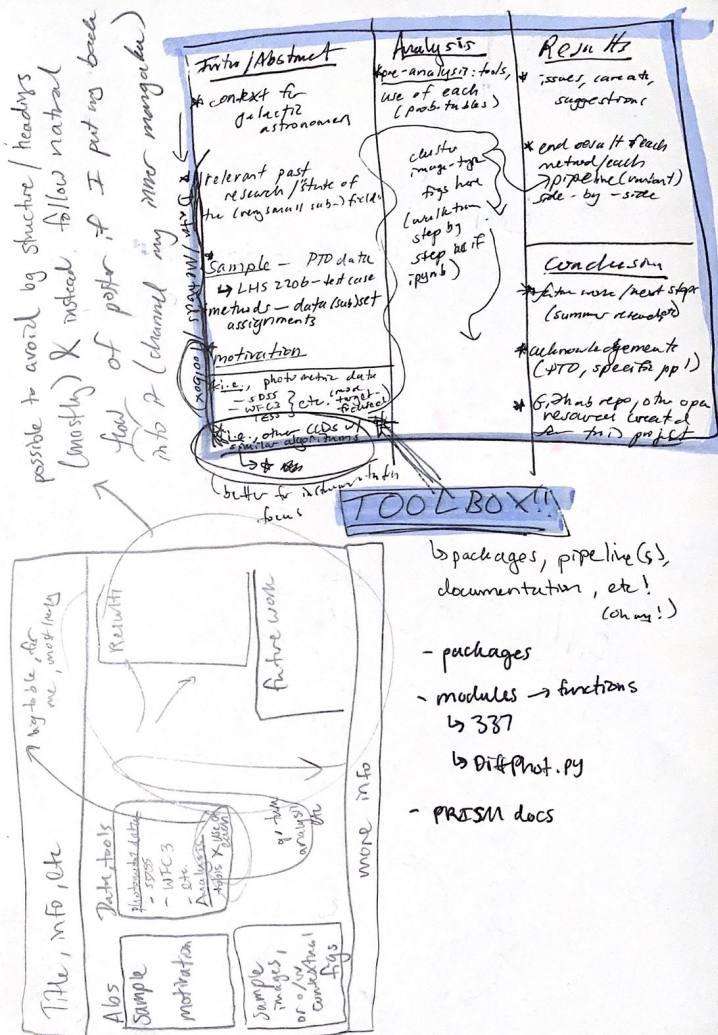


WK 10
4/9/24
poster
brainstorming
A341



Sections (for me, probably)

- Intro \rightarrow context, bg, past research
- Data } tables! whee! figures! yippeee!
- Methods } \rightarrow the Meat
- Analysis } \rightarrow
- Results \rightarrow
- Conclusion \rightarrow future research, recommendations, etc.



4/16/24
A341

Wk 11

today: group meeting (w/ Elit)
class wk 11
+ mrow: group meeting (w/ Elit)

organization zone

Wk 1

Wk 2

Wk 3 — Lab 3 — TESS lightcurves/pipelines

Wk 4

Wk 5 — peer-feedback reflection #
project proposal
ipyub + modules

Wk 6

Wk 7 — code organization — photometry
Lab 7 — periodograms, phase folding

Wk 8

Wk 9

Wk 10

Wk 11

Wk 12

my (handwritten) goal today:
reading PRISM
documentation
(from 2005)

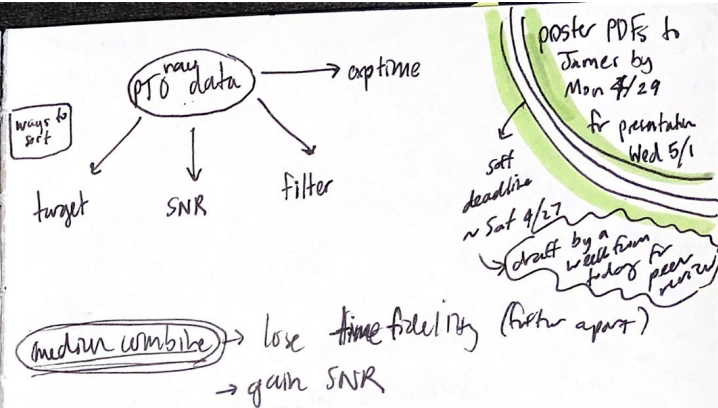
Set up blog
Wk 6 post
option rel'd
goal
- arm. sub
- where file
- science *
- export
- details

Lon 1 meeting

* pixel well depth reln to richness
variations

figure

make fig like the detrending one
from Howell (Fig 45) CCD image



fringe frames → multiple possible procedures to obtain
① neon lamp substitute (Howell 2012)

② isolate fringing q/w in data → req. CCD info
Lorea running 337 pipeline 1st to
get flats/other cal frames?
ask Roxana for help (office hrs)

detrending methods
exoplanet vs tab 6 vs ...
→ other news of exoplanet?

→ message Roxana soon to meet w/ her abt pipeline
Fri 4/17?

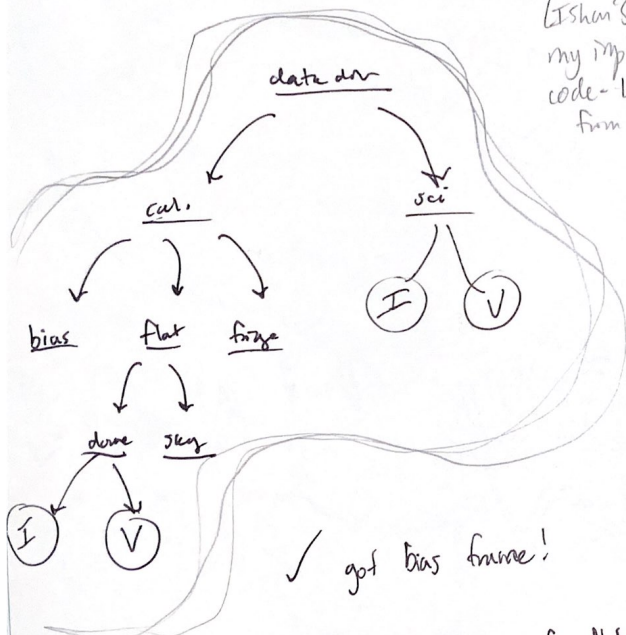
→ for wk 12: poster draft for peer review

defringing script

- everything up to raw sci. img. creation
- fringing
- shifting, MC { already calibrated

8/12 Fri
Kuniffra Los!

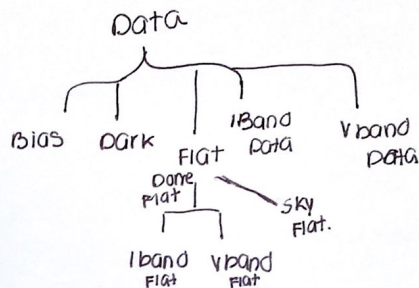
~1.5 hrs
we managed
to get the
pipeline(s)
from 337 in
shape
Gishan's fines
my implementation
code - Lab 5/6
from 337)



✓ got bias frame!

✓ next up - repeat for flats

UMassAmherst
Department of Astronomy



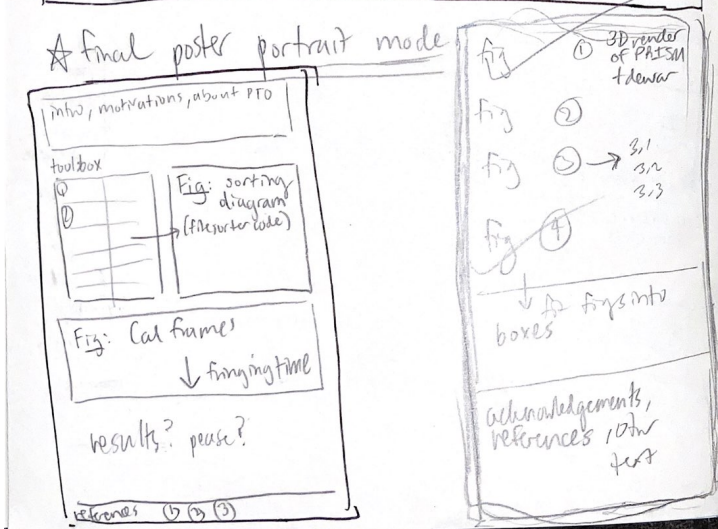
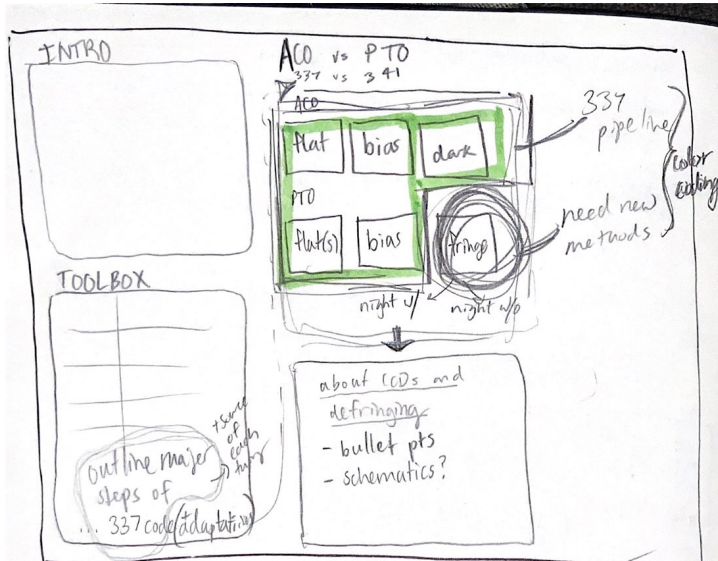
★ night 2 has terrible fringing
→ (01/15) vs (01/19)

used biases from
this night;
actual reduction
showed less fringing
than 01/15

POSTER NIGHT WED 5/1

→ dress up!

→ remember faculty haven't seen our observing proposals!



Wk 12 4/23/24

↳ next wk (1 day 64 poster session) — will work on elevator pitch in class

★ posters need to be submitted BY MON @ NOON (4/29)

↳ soft deadline Sat 5pm

→ G-docs letz you change date (file → pg setup) (36 x 48 / 3' x 9')

figures

- ACO vs PTO cal. frames
- something about PTO CCD hardware
- fringe frame comparison for PTO
↳ fig 3, 4, 5 (ie Howell style)
- tree diagram for sorting
↳ might put on left/1st

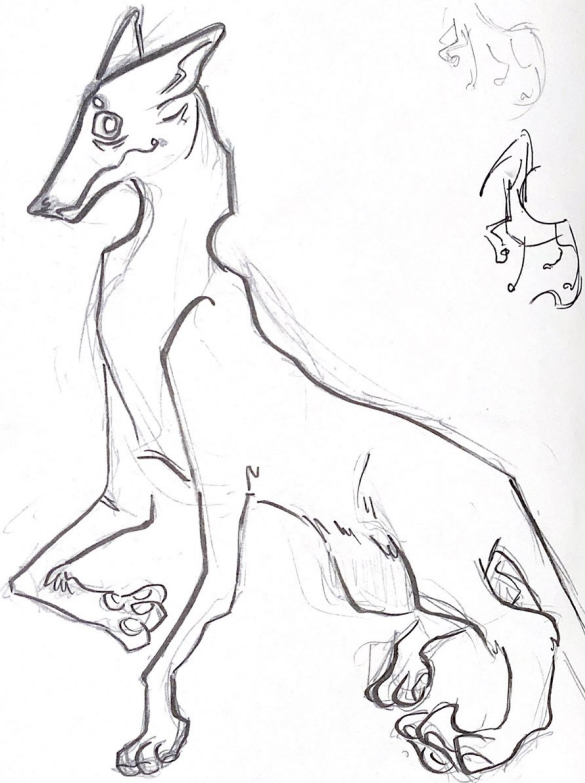
5/3-5/6 last minute work turn-in period

list has to finish grading by 5/10 ish!

soft flat → move on to fringing



dog...



IMAGES

→ for fig use, to finalized

have
ACO: F(V)
B
D

Sci (V)?

Sci (I)?

Sci (F)?

PTD: F(V) F(I) DOME#

2x = w/ vs
w/o apparent
fringing

→ night weather conditions
→ passband

*have I-only sky flats,
prob. not using them

ACO

F(V)	B	D
F(I)		

PTD

F(V)	B
F(I)	

NO D
bc of LN2!

fringe

night w/ vs
night w/o strong fringing

cal frames: PTD

F(V) _f	F(I) _f
F(V)	F(I)

e.x. calibrated
images from a night
w/ vs w/o fringing

ACO	PTD
F(V)	F(V) _f
F(I)	F(I) _f
B	B

final sketch oh god

Wk 13

← 36" →

1 CCD Fringing & Data Reduction @ PTD

logo zone



what had to do w/ exploration etc but → data bc many are hard issues w/ data, some ppl 2.1 using TESS etc.

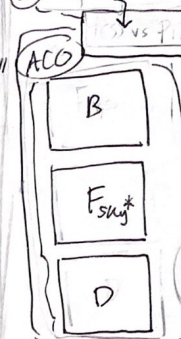
NAME: KLWWD etc. contact info pls hire me

file folder dates

ACO → PTD



Calibrating Data - HELP!



explain less in center?

assumed F vs F for ACO, for PTD this is not the case!

other methods

methods used

5

4 Lowell 2012 4
Prof Mita 3
acknowledgements
Egor Roserina Andy
M. V. (x man) Prof Mita Golt

POSTER COMPONENT

1 BG, 36" x 48"

- 1 title, intro, etc. + logos + my & collaborators info
- 2 toolbox + CCD info
- 3 files or folder
- 4 cal. frames
- 5 fringe frames multi fr. + next steps?
- 6 results etc + my info + acknowledgements

2.1

methods / code / tools

I ♥ LINUX

relevant bc approve you can do a sth more & adapt to a new OS which also learning tough code stuff in a productive way. etc for terminal use, etc.

SUR

2.2 ACO

VS PTD CCDs

TESS VS PTD LC Fringe

PTD

CC + credits not closed captions in this case: v

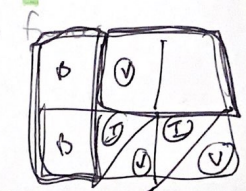
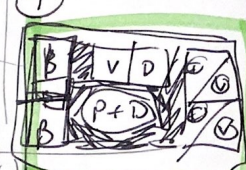
The CCD matters. new camera means new data challenges

array 2 rows of imaging?

LC quality relies
1 telescope
2 pipeline

PTD vs ACO (vs TESS)
various code methods

4 2048 x 2048



LOIS! grism! LN2 cooling!

MSRP

CCD size (array)

fringe array fr.

cal.