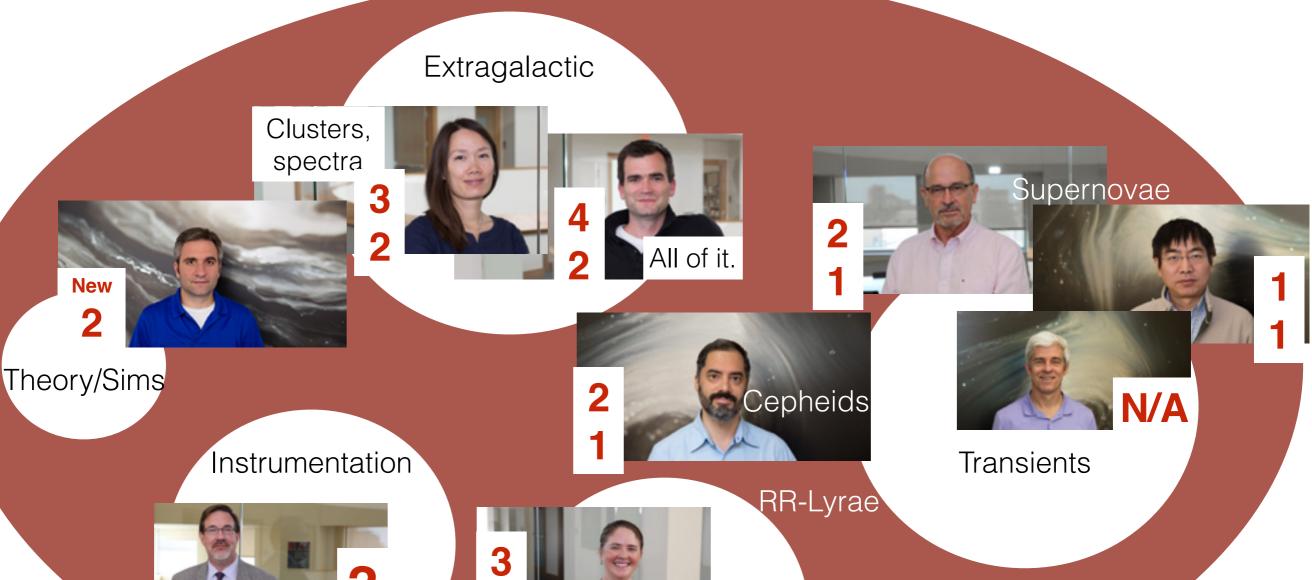
Choosing an Advisor and Beginning Research

GLASS September 2, 2016

Choosing an Advisor

- Things to consider:
 - What topics are you interested in?
 - What do you need from an advisor?
 - Who has projects/money for you?

What interests you?



Galactic

What interests you?

- Some postdocs will also take students (need a faculty 'sponsor'):
 - Ryan Quadri galaxy evolution
 - Peter Brown supernovae (UV)
 - Jonelle Walsh SMBHs
 - Meiyu? Luke? Andrew?

What do you need?

- Communication, collaboration, direction
 OR
 I work on my own, leave me alone!
- Most of us need a decent amount of assistance/ direction our first few years, and become more independent as we go on.
- Know a potential advisor's availability (physical and electronic), update/progress frequency expectations.

Choosing an Advisor

- If you haven't decided yet, set up meetings with professors, attend group meetings, etc.
- Read some papers of a potential advisor to see if the topic interests you.
- Talk to other grad students!
- Always ask questions if you have them.

Beginning Research

- Usually at the beginning an advisor will point you in a direction / give you a project to start on.
- Read relevant papers (annual reviews, advisor publications, references therein,...)
- Take notes of main ideas, and keep track of what you've done.

Programming

- Most astronomy research is programming.
- If you don't have much programming experience, learn a language ASAP. Most of us use Python, but if your advisor gives you a bunch of code in e.g. IDL, that'd be good to know.
- Always look for a code that does what you want before rewriting - many astronomy packages are available!

Keep in mind...

- You can switch if project or advisor isn't working for you... but not too many times!
- While you are taking classes, your priority is to pass them (not necessarily get an A...), but you should make progress on research.
- You are here to do research it's not always fun, but if you don't enjoy it on the whole, this program may not be for you (and realize that that is perfectly fine).

Good luck!

- The first bit of time can be tough as you adjust to grad school life.
- Realize that: You are here == you are smart and capable.
- Everyone here wants you to succeed.