Choosing your Pre-MAP Research Project

It's time to choose your Pre-MAP project! You will spend the second half of the quarter working closely with your research advisor and research partner on guided research. At the end of the quarter you will give a presentation on the results of this work. It's important to choose a project that interests and excites you, so you can stay focused and motivated. Some helpful things to consider when ranking projects: 1) your level of interest in the science behind the project, 2) the skills you will obtain by completing the project, 3) the possibility of continuing similar research beyond this quarter, 4) the potential to present the research at a future conference, and 5) the potential to be included as an author in a scientific publication resulting from the research.

The requirements of this assignment are:

- 1. Rank the three research projects that you want to work on the most based on the project description and the research advisers' presentations. (3 pts)
- 2. For each project, **briefly** describe why the project interests you and/or why you would benefit from working on the project. Each justification should be 1-3 sentences. (6 pts)
- 3. For the project you would like to work on the most, indicate whether you would you would be OK with being the only student working with your research advisor or if you would rather work on your second or third choice project as part of a two person team (if the alternative was to work alone). This is important if no one else chooses your #1 ranked project. (1 pt)

Send the above information to me by email **as soon as possible**, but no later than Sunday (Oct. 5) evening at 5 pm.¹

The following pages contain space for you to make notes about each project during the project pitch presentations. You **do not** need to turn those notes in to me.

¹ In the event that too many people choose the same projects as their top choices, I will give preference to those choices I received first.

Writing Assignment 2

When did the first star in the Universe form?

Advisers: Matt McQuinn and Phoebe Sanderbeck

Investigating the Wolf Rayet-Black Hole Binary NGC 300 X-1

Adviser: Breanna Binder

Measuring Oxygen Input for Life in Lake Vostok Using Radar Sounding Data

Advisers: Dale Winebrenner and Paul Kintner

Writing Assignment 2

Variations in Galaxy Shapes and Sizes

Advisers: Lauren Anderson and Tom Quinn

A Brief White Dwarf Planet Search with Apache Point Observatory

Adviser: Brett Morris

The Growth of Supermassive Black Holes in Galaxy Mergers

Advisers: Michael Tremmel and Fabio Governato

Searching for New X-ray Binaries in M33

Advisers: Kristen Garofali and Ben Williams