

List of Projects: Summer 2024

First and Last Name:

Please check up to 3 boxes to indicate your preferred projects. The selection is not ranked. Project descriptions and requirements are provided in a separate document linked to the internship webpage.

- 1. Molecular Gas Conditions and Star Formation in Nearby Galaxies
- 2. Finding Hidden Monsters
- 3. Turbulence in protoplanetary disks produced by hydrodynamical instabilities
- 4. Time-series analysis to probe the interior of massive stars
- 5. Probing the 3D Nature of Exoplanet Atmospheres with JWST Data
- 6. Searching for Hidden Black Holes
- 7. Determining strategies for efficient follow-up observations of candidates to massive stars with black hole companions
- 8. On the properties of Class 0/I protostellar cores in the Lambda Orionis molecular complex
- 9. Mapping interstellar extinction with stellar clusters
- 10. Exploring the fields of $z \sim 6$ radio-loud AGN with multi-wavelength datasets
- 11. Do Active Galactic Nuclei coexist with extreme starbursts in massive galaxies in the distant Universe?
- 12. Jellyfish galaxies as probe of galaxy evolution and cosmic gas
- 13. Understanding the formation and evolution of Milky Way and Andromeda-like galaxies with the TNG50 simulation
- 14. Keeping adaptive optics systems well-aligned during closed-loop operation (*local HD students only*)