

Thesis Approval Form

Student Name	Student ID_********
Doctoral Degree in Astrophysical and Planetary Sciences	
Thesis Title:	
Probing the Dynamic Universe with the Motions of	Stars and Galaxies
Have you performed research involving human subjects which requires approval from the Institutional Review Board (IRB)? Yes \underline{X} No	
IRB Protocol Number	
Have you used live animals, animal tissue, or observational animal work which requires approval from the Institutional Animal Care and Use Committee (IACUC)? Yes \underline{x} No	
IACUC Protocol Number	
Attach the final copy of thesis/dissertation for committee review. While formatting changes may be requested by the Graduate School, the content of the attached document should be final.	
Approvals:	
Committee Chair Name Jeremy Darling	
Signature	_ Date Signed
Committee Member Name Jason Dexter	
	Date Signed 4/16/2023

The final copy of this thesis has been examined by the signatories, and we find that both the content and the form meet acceptable presentation standards of scholarly work in the above-mentioned discipline.