


**AST 287/487 or PHY 287/487  
Research Registration**

As opportunity for selected undergraduates to conduct faculty-supervised research for academic credit. Research proposals must be prepared by the student and submitted for approval by the supervising faculty before beginning the credit period. An account of the work and results achieved is submitted to the supervising faculty before the end of the credit period. May be repeated for up to a total of three credits for AST/PHY 287 and six credits for AST/PHY 487.

**ALL SECTIONS ON THIS FORM MUST BE TYPED EXCEPT FOR THE SIGNATURE SECTION**

<b>Student Name:</b> Henry Shi	<b>Student I.D. #:</b> 112166935
<b>Email address:</b> henry.shi@stonybrook.edu	
<b>AST 287 section #</b> T13	
<b>AST 487 section #</b>	
<b>PHY 287 section #</b>	
<b>PHY 487 section #</b>	
<b>Faculty Name:</b> Will Farr	
<b>Credits to be earned:</b> 1 credit = 4 hours work per week 1	
<b>Semester:</b> (semester and year) (ex: Fall 2017) Fall 2020	
<p>Describe research project to be completed this semester:</p> <p>This semester, I will perform analysis on a data set of supernovae to obtain an estimate for the value of the Hubble constant. I will use the Markov-chain Monte Carlo method to fit a model to the data set and evaluate the closeness of fit. This will help me evaluate the precision and accuracy of my estimate for the Hubble constant and hopefully resolve the disagreements in its value.</p>	
<b>Please note: Students enrolled in PHY 287 or 487 or AST 287 or 487 are expected to present their work at the annual URECA celebration.</b>	
<b>** Research Report must be completed just prior to the end of the semester**</b>	
<b>Signature section:</b>	
<b>Student Signature :</b> 	<b>Date:</b> 6/2/2020
<b>Faculty Signature :</b>	<b>Date:</b>
<b>Undergraduate Director Signature:</b>	<b>Date:</b>