Carter Rhea’s interest in astronomy led him to read a book on the controversy surrounding Stephen Hawking’s claims regarding information loss. “That book convinced me that this was what I wanted to study. So, I approached a professor whose research focuses on black holes. He said he’d be happy to take me on as a research assistant, and told me that I didn’t need a background in this area, only a willingness to learn how to conduct the research.”

Carter worked with that professor for two years while taking a full load of courses. “The research involves observations of super-massive black holes,” he explains, “and my role included data analysis, reduction and interpretation. I had to learn many computational techniques as well as computer programming. These tools allowed me to analyze observations of a supermassive black hole taken with X-ray and optical telescopes and infer several important properties of the black hole such as the size of its accretion disk and its spin.”

For Carter, a big advantage of studying astronomy at the College is that the liberal arts approach really complements scientific studies. “I like the idea of getting a well-rounded education. I want to be able to talk about everything knowledgably –whether that’s literature, science or history.”

Not too long ago, he was able to do just that when he presented his research at a conference. “I spoke to a full audience who seemed to enjoy the presentation and come away with a good base understanding of my work.” He later traveled to Madrid, Spain, to offer a poster presentation at a conference sponsored by the European Space Agency.

After he graduates from the College, Carter plans to attend graduate school.