

# Eliza Crocker '23

Research Assistantship with Professor John Voight

Winter 2021

Thanks to the generosity of the Byrne family, I spent my winter term of 2021 conducting a research assistantship under Dartmouth Mathematics Professor John Voight. With his guidance, I learned data collection and analysis techniques using Excel and writing computer programs with Magma. These analyses allowed me to make observations regarding the Galois groups of various Belyi maps, which led to the derivation of their reducibility. I culminated my assistantship by writing two papers on my research findings and presenting them to faculty and other undergraduates. I am indebted to the Jack Byrne Scholars program for the ability to partake in this opportunity!