

Billy McKittrick '27

Research with Professor Mucha

Summer 2025

This past term, I used my Byrne Scholar funds to remain on campus during Dartmouth's sophomore summer term, which I took as an off-term as an international student. I spent the summer conducting research with Professor Peter Mucha on random graph models, exploring disease spread across various networks. Alongside this research, I worked for the Mathematics Department as a teaching assistant, helping students engage with course material, and supporting myself further with additional academic related on-campus jobs.

My experience this summer supported through Byrne funding allowed me to stay deeply connected to the Dartmouth experience during an otherwise off-term, while advancing both my academic growth. It was exciting to explore mathematical research for the first time while also enjoying the unique sophomore summer experience in Hanover. Working in a different academic environment was both challenging and rewarding, and it has inspired me to continue pursuing academic research going into my Junior year. As always thank you so much Byrne family for all the wonderful support!