Abstract
GEARE proved to be a great way to explore a part of the world within the framework of university study and internship. The National University of Singapore is a world-class university, especially for studies in engineering, and offered the opportunity to travel to many other nearby countries. In the summer, it was off to Shanghai for an internship in the field of green energy.

Domestic Internship
The summer before embarking on GEARE, I interned at the Purdue Climate Change Research Center (PCCRC) through DURI. Modifying Fortran code in models that take months to run on Purdue’s supercomputers, I tested climate mitigation strategies.

International Internship
Shanghai Jiao Tong University’s Sino-Italian Green Energy Lab hosted me for a summer-long internship. I worked with professors and graduate students at the university, examining alternative cooling strategies by means of CFD and thermodynamic analysis.

International Design Team
The multinational senior design team I am working with is examining better ways to manage solvent waste from applications like high performance liquid chromatography (HPLC). This is a problem for research and industry worldwide. Given the nature of this waste, handling it can be a challenge, but a better way to manage it could mean a significant change in the environmental impact of using solvent-intensive applications globally.

Broader Impacts
One of the most exciting things about this experience was the opportunity to work and develop skills in a setting so entirely unfamiliar and challenging.

At the Environmental and Ecological Engineering Program at Purdue, the focus tends to be on domestic environmental problems, so taking classes on environmental engineering in Singapore was a great way to learn about and contribute a little bit to similar problems around the world.