

STEM Pathways Summer 2022 Seminar Series

Schedule

Friday, July 15, 2022

12:00 pm - 1:00 pm

CILSE 106C



Characterizing and Modeling Bacterial Optogenetic Systems

Presented By

Cristian Coriano-Ortiz,
Ph.D. Candidate

Biomedical Engineering,
Dunlop Laboratory

About Cristian Coriano-Ortiz

Cristian's past work was completed under PI, René Olivares-Navarrete at Virginia Commonwealth University. In this laboratory, Cristian performed research within the Immuno-Regenerative field. Cristian received his Bachelor of Science in Biomedical Engineering from the same university in 2019. Cristian's current work uses optogenetics - a method that modulates a cell's activity using light and genetic engineering.



Exploring dynamic gene expression in "*Escherichia coli*"

Presented By

Caroline Blassick,
Ph.D. Candidate

Biomedical Engineering,
Dunlop Laboratory

About Caroline Blassick

Caroline's latest research investigates temporal expression of a suite of stress-response reporters in *Escherichia coli*, while simultaneously monitoring growth rate. To accomplish this task, she uses fluorescence microscopy to examine single cells on agarose pads and in microfluidic devices. Through this technique, Caroline hopes to measure heterogeneity across cells within a population.