THOMPSON RIVERS UNIVERSITY

Environmental Sciences Seminar Series

FALL 2022

Name of guest speaker:	Matthew Coghill
Current affiliation:	Department of Natural Resources, Thompson Rivers University
Seminar date:	October 27, 2022
Title of seminar:	Predictive geospatial modelling: Modern GIS methods and practical applications using LiDAR, multispectral, and open-sourced tools

Abstract:
Traditional GIS courses teach a wide range of skills to students from various academic backgrounds. Indeed, ArcGIS is the leading tool for geospatial visualization, interpretation, and analysis; however, licenses for this and other specialized software are expensive and how their tools work is often a mystery. Open-sourced tools that function similar to licensed tools are gaining popularity, and knowledge on their use is a valuable asset to a potential employer. Here, I will outline my experience using these tools in various projects and discuss modern methods of predicting terrestrial ecosystems and plant presence using UAV's and other remote sensing technologies.