**JOEY LAKERDAS-GAYLE**, University of Waterloo
*Computability theory of function composition*

We will discuss the relationship between function composition and the computability-theoretic complexity of functions (their *partial degree*). We fully characterize the possible degrees of $g \circ f$ in terms of the degrees of $f$ and $g$. We also consider the problem of "splitting over composition": Given a function $h$, what are the possible degrees of functions $f$ and $g$ for which $g \circ f = h$? We will discuss some new results, natural examples, and application to computable structure theory.