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Alex Cameron* (alexander.cameron@vanderbilt.edu). *Extremal problems for directed graphs and hypergraphs.*

For a fixed graph F , let $\text{ex}(n, F)$ denote the maximum number of edges that an F -free graph G can have if G has n vertices. This definition extends naturally to digraphs and to directed hypergraphs (the latter has many possible definitions). In this talk, we will discuss some recent results in extremal numbers for directed graphs and hypergraphs as well as directions for future research. (Received September 17, 2019)