A list orientation of graphs

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For a list $L$ of a graph $G$ with $L(v) \subseteq \{0, 1, \ldots, \deg_G(v)\}$ for each vertex $v$, an $L$-orientation of $G$ is one such that the outdegree of each vertex $v$ is contained in the list $L(v)$. In this talk, we discuss the existence of an $L$-orientation. In particular, we apply a polynomial method to plane graphs to find an $L$-orientation if the list $L$ satisfies certain conditions.