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Courtney R Gibbons* (crgibbon@hamilton.edu), Math Department, Hamilton College, 198 College Hill Road, Clinton, NY 13323. *Boij-Soederberg theory as an introduction to research in commutative algebra*. Preliminary report.

Commutative algebra is ripe with topics for undergraduate research, and I will discuss one such topic: Boij-Soederberg theory. I will focus on specific results from two undergraduate research projects I mentored in this context, including how I developed the projects to dovetail with my own research agenda. I will also (briefly!) describe my experience as a mentor to undergraduates and a few things I wish I'd known ahead of time. (Received September 17, 2018)