

1116-E1-1434 **Robert Jacobson*** (rjacobson@rwu.edu), 3 Bayview Ave, APT 1w, Bristol, RI 02809. *Bridging the Closed and Open: How FoxySheep Can Benefit Both Proprietary and Open Technologies for Teaching and Research.*

The proprietary computer algebra system Mathematica is a favorite among many teachers and researchers. Its polished interface and powerful library make it easy for undergraduates and researchers to use. However, its proprietary nature presents difficulties in terms of cost, peer review, reproducibility, etc. Meanwhile, excellent open alternatives exist but have incompatible syntax. FoxySheep is a parser for Mathematica-like syntax that facilitates communication between open mathematical software and Mathematica as well as using Mathematica-like code with open software without requiring proprietary software. (Received September 19, 2015)