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Alice Silverberg* (asilverb@math.uci.edu). *Through the Cryptographer's Looking-Glass, and what Alice found there.*

I will give an account of my adventures in the wonderlands of mathematics and cryptography. I'll offer some food for thought on how mathematics can be useful in cryptography, how cryptography can motivate research of mathematical interest, and how mathematicians and cryptographers can learn to play well together. A primary focus will be on the quest to find cryptographically useful multilinear maps. Along the way I will share some thoughts that I hope will be helpful on what I learned about community. (Received September 12, 2016)