1125-39-2387 **Valmir Bucaj*** (vb11@rice.edu), 6100 Main St. Ms-136, Houston, TX 77005. *On the Kunz-Souillard approach to localization for the discrete one dimensional generalized Anderson model.*

We prove dynamical and spectral localization at all energies for the discrete *generalized Anderson model* via the Kunz-Souillard approach to localization. This is an extension of the original Kunz-Souillard approach to localization for Schrödinger operators, to the case where a single random variable determines the potential on a block of an arbitrary, but fixed, size α. For this model, we also prove positivity of the Lyapunov exponents at all energies. In fact, we prove a stronger statement where we also allow finitely supported distributions. We also show that for any size α *generalized Anderson model*, there exists some finitely supported distribution ν for which the Lyapunov exponent will vanish for at least one energy. Moreover, restricting to the special case $\alpha = 1$, we describe a pleasant consequence of this modified technique to the original Kunz-Souillard approach to localization. In particular, we demonstrate that actually the single operator T_1 is a strict contraction in $L^2(\mathbb{R})$, whereas before it was only shown that the second iterate of T_1 is a strict contraction. (Received September 20, 2016)