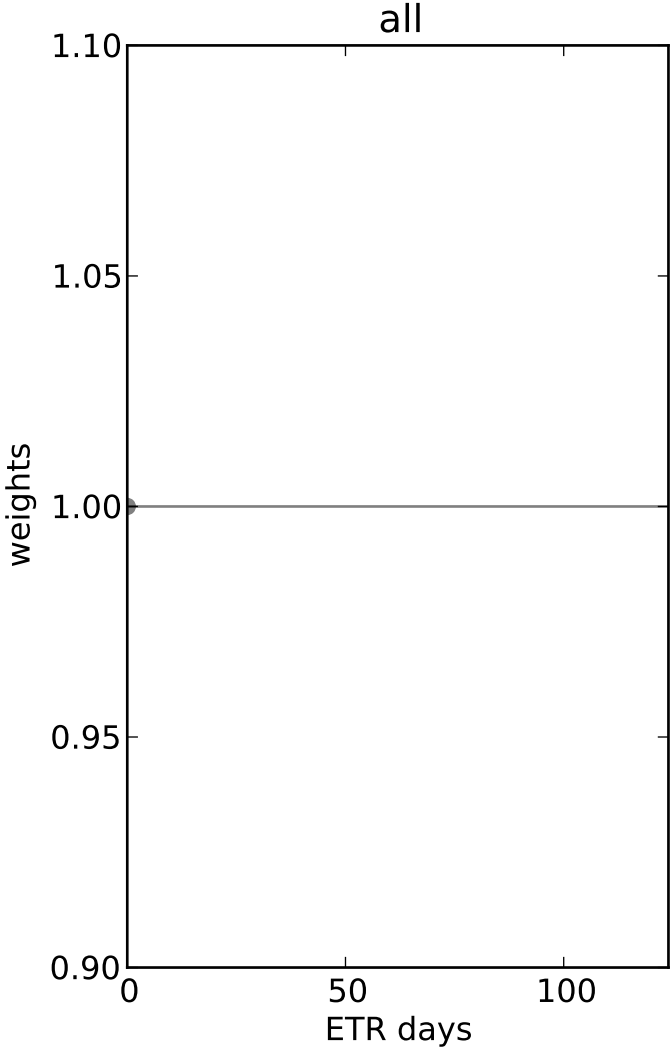weights Frederick_M._Lawrence