

**ERRATA FOR *MARKOV CHAINS AND MIXING
TIMES*, SECOND EDITION**

(12.18): The eigenfunctions for SRW on the cycle given there satisfy $f_j = f_{n-j}$, so there are only $1 + \lfloor n/2 \rfloor$ of them, for $j = 0, 1, \dots, \lfloor n/2 \rfloor$.

Replacing cosine by sine for $j = 1, \dots, \lfloor (n-1)/2 \rfloor$ yields the remaining eigenfunctions. This is needed in order to be sure what the spectral gap is. This error propagates to (12.19) where the eigenfunctions claimed to be independent are double-counted and the eigenvalues we claim are distinct are repeated. Sines are needed there as well.