Errata for
“The Fractional Fourier Transform and Applications”
by David H. Bailey and Paul N. Swarztrauber
October 7, 1992

Please note the following errors in this article as printed in SIAM Review. First, equation (17) should read

\[ z_j = e^{\pi i (j - 2p)^2} \alpha \]  \quad 2p - m \leq j < 2p

Second, immediately after equation (22), the current text states that “the remainder of the algorithm is unchanged.” This is not quite true. When \( s \) is nonzero, equations (18) and (19) become

\[
G_{k+s}(\alpha, \alpha) = e^{-\pi i (k+s)^2} \alpha \sum_{j=0}^{2p-1} y_j z_{k-j} \quad 0 \leq k < m
\]

\[
G_{k+s}(\alpha, \alpha) = e^{-\pi i (k+s)^2} \alpha F_{k}^{-1}(w) \quad 0 \leq k < m
\]