Corrections for “next printing” of Coalescent Theory

The line numbers below do not count header, figures, or tables, but do count (each line of) equations. “Line -N” counts up N lines from the bottom of the page.

1. Page XI, line 14 Now reads: who one masters Should read: who masters
2. Page XII, line -2 Now reads: Massachussets Should read: Massachusetts
3. Page 19, column K, row I of figure 1.6 Now reads: - Should read: 2
4. Page 35, term in equation 2.31 Now reads: \( f_{X_1}(X_1) \) Should read: \( f_{X_1}(x_1) \)
5. Page 68, line 2, numerator of right-most term in equation Now reads: \( N - 1 - (i - 1) \) Should read: \( N - 2 - (i - 1) \)
6. Page 72, second unnumbered equation Now reads:

\[
G_{2,1} = E \left[ \sum_{i=1}^{N} \frac{Y_i(y_i - 1)}{N(N-1)} \right] = \frac{E[Y_1(y_1 - 1)]}{N-1} = \frac{\text{Var}[y_1]}{N-1} = \frac{\sigma^2}{N} + O(1/N^2).
\]

Should read:

\[
G_{2,1} = E \left[ \sum_{i=1}^{N} \frac{Y_i(Y_i - 1)}{N(N-1)} \right] = \frac{E[Y_1(Y_1 - 1)]}{N-1} = \frac{\text{Var}[Y_1]}{N-1} = \frac{\sigma^2}{N} + O(1/N^2).
\]

7. Page 72, the two lines following this second unnumbered equation Now reads:

\[
\ldots E[y_i(y_i - 1)] \text{ is the same for every } i, \text{ and that } E[y_i] = 1, \text{ so that } E[y_i(y_i - 1)] = \text{Var}[y_i].
\]

Should read:

\[
\ldots E[Y_i(Y_i - 1)] \text{ is the same for every } i, \text{ and that } E[Y_i] = 1, \text{ so that } E[Y_i(Y_i - 1)] = \text{Var}[Y_i].
\]

8. Page 79, end of line 12 Now reads: \( \log(n) - \) Should read: \( \log(n) + \)
9. Page 80, horizontal axis label of figure 3.5 Now reads: \( t \) Should read: \( t \)
10. Page 86, end of line 3 Now reads: \( \sum_{i=k}^{n} T_i \) Should read: \( \sum_{i=k+1}^{n} T_i \)
11. Page 86, equation 3.42, second case \( (k \geq 2) \), first term in denominator Now reads: \( i! \) Should read: \( k! \)
12. Page 87, left axis figure 3.8: Now reads: 30 20 10 Should read: 3 0 2 0 1 0

13. Page 94, Section 4.1.1 title Now reads: The Number Segregating Sites Should read: The Number of Segregating Sites

14. Page 95, line -5 Now reads: \( p = \theta / (\theta + 1) \) Should read: \( p = 1 / (\theta + 1) \)

15. Page 107, exponent of \( (1 - \frac{1}{N}) \) in equation 4.23 Now reads: \( i \) Should read: \( i - 1 \)

16. Page 111, line 19 (or -12) Now reads: \( \sum_{k=0}^{n} P\{k\} = 1 \) Should read: \( \sum_{k=1}^{n} P\{k\} = 1 \)

17. Page 118, lower right panel of figure 4.7 Now reads: 2 4 6 8 Should read (see lower left panel; should be same): 2 4 6 8 10

18. Page 119, line -14 Now reads: to deviation from Should read: to deviate from

19. Page 123, line 1 Now reads: longer Should read: long

20. Page 123, line 3 Now reads: in ancestral Should read: in the ancestral

21. Page 221, first line after equation 7.9 Now reads: \( P\{\text{Data and } I = A_1, C = A_1|B_2\} \) Should read: \( P\{\text{Data and } I = A_1, C = A_1|2\text{-branch}\} \)

22. Page 237, term in equation on line 8 Now reads: \( f_{aa} \) Should read: \( f_{ab} \)

23. Page 242, beginning of line 5 Now reads: between 0 and 1. At one extreme, if Should read: between \( -1 \) and 1. If

24. Page 242, line 6 Now reads: At one extreme, if Should read: If

25. Page 242, end of line 7 Now reads: \( . \) Should read: \( . \) If \( Y = -X \), then \( \text{Corr}[X,Y] = -1 \).

26. Page 251, number in denominator of equation 8.5 Now reads: 0.000392 Should read: 0.0000392

27. Page 284, equation in text, second line below equation 8.32 Now reads: \( P\{G_i|D; \theta \} = P\{D|G; \theta \} P\{G\} / P\{D; \theta \} \) Should read: \( P\{G_i|D; \theta \} = P\{D|G_i; \theta \} P\{G_i\} / P\{D; \theta \} \)