"Statistical Analysis of Financial Data in R"

Errata and Typos

- p. 7 line 14[†] no "s" at the end of the command
- p. 27 line 18\$\psi\$ "quanrile" should read "quantile"
- p. 37 line 13 \downarrow "between π_p and 1" should read "between π_p and π_1 " or equivalently "greater than π_p "
- p. 54 line $2\downarrow$ and line $5\downarrow$, $\mathbb{P}\{\psi(X)\leq\alpha\}$ should read $\mathbb{P}\{\psi(X)\geq\alpha\}$
- p. 62 line 16\$\display\$ the formula should read $F_{m,\lambda}(x) = \frac{1}{\pi} \tan^{-1} \frac{x-m}{\lambda} \frac{1}{2}$, i.e. remove the square brackets
- p. 62 line 11[†] "PI" should be lower case
- p. 66 in the 3rd line of the statement of Problem 1.8, "oft the" should read "of the"
- p. 73 line 8[†] "eocnphysics" should read "econophysics"
- p. 86 line 10\$\psi\$ the outputs of the function sample.LMOM are now called ell_1, ell_2, tau_3, tau_4 in the more recent version of the library Rsafd
- p. 90 formulas (2.19) and (2.20), the x_1 appearing in the right hand side should be a x_i
- p. 93 lines 9-10↓ the numerical output of the command PCS.lmom may be different with a recent version of the library
- p. 94 lines 1-2↓ the numerical output of the command PCS.lm may be different with a recent version of the library
- $\bullet\,$ p.97 line 3 \uparrow the formula should read

$$F_{\ell}(x) = \mathbb{P}\{X - \ell \le x \mid X > \ell\} = \frac{F(x+\ell) - F(\ell)}{1 - F(\ell)}, \quad x \ge 0.$$

- p. 105 Figure 2.10, the tick labels on the top of the plot produced by shape.plot may b different in the more recent version of the library Rsafd
- p. 107-108 The numerical results for xi shown in Figure 2.13 and discussed in the last paragraph of p. 107 are erroneous. The new version of the library Rsafd will provide the exact values tailplot
- p.114 in formulas (2.36) and (2.37), q should be replaced by p
- p. 128 line $9 \downarrow \rho\{X,Y\}$ should read $\rho\{X,Y\}^2$
- p. 135 The command par(mfrow=c(2,1)) in the middle of the page should read par(mfrow=c(2,1)) in order to produce the plot in Figure 3.6 p. 136.
- p. 137 line 10 nshape.plot(BLRet, tail=two) "should read "shape.plot(BLRet, tail="two")"
- p. 139 The estimates of xi appearing in Figure 3.9 are not correct
- p. 142 line 4\pmed "method = k " should read "method = "k" or "method = "kendall""
- p. 143 line 15↓ the formula in the middle of the page should read

$$\rho_S(g(X), h(Y)) = \rho_S(X, Y),$$

in other words, the subscript K in the right hand side should be a S.

• p. 144 line 2[†] "first argument" should read "second argument"

• p. 147 line 3\gamma the formula giving the Gumbel copula should read

$$C_{\delta}(u, v) = e^{-[(-\log u)^{\delta} + (-\log v)^{\delta}]^{1/\delta}}$$

- p. 147 line 16 \downarrow In the last occurrence of the function C, $C(u-1,v_1)$ should read $C(u_1,v_1)$
- p. 221 line 4[†] "plot(EDL2\$residuals" should read "plot(UE12\$residuals"
- p. 257 line 3[†] there is no "-" sign in formula (4.40)
- p. 259 line 12[†] formula (4.43) should read

$$Y_{NS}(x, \theta) = \theta_1 + \theta_2 \frac{1 - e^{-x/\theta_4}}{x/\theta_4} + \theta_3 \theta_4 \left(\frac{1 - e^{-x/\theta_4}}{x/\theta_4} - e^{-x/\theta_4} \right)$$

- p. 260 line $3\downarrow$ " $Y_S(x, \theta) = \theta_1 \frac{\theta_2 \theta_4}{x} (\dots$ " should read " $Y_S(x, \theta) = \theta_1 + \frac{\theta_2 \theta_4}{x} (\dots$ "
- p. 262 line 12[†] the output of the optimization should read (the plots are correct):

> GB.fit

\$par

[1] 0.01782828 0.01941745 0.01311990 7.72833219

\$value

[1] 221.3677

\$counts

function gradient 86 86

\$convergence

[1] 0

\$message

[1] "CONVERGENCE: REL_REDUCTION_OF_F <= FACTR*EPSMCH"

- p. 296 line 1↑ & p. 297 line 1↓ the name of the kernel should be in quotes kernel="triangle""
- p. 315 line 11\psi "kernel=gaussian, b=0.05" should read "kernel="gaussian", b=0.5"
- p. 318 line 4[†] "kernel=7, b=.0032" should read "kernel="gaussian", b=0.15"
- p. 321 line 7[†] "kernel=gaussian, b=0.033" should read "kernel="gaussian", b=0.15"
- p. 328 line 14\pi "ppt" should read "ppr"
- p. 418 line 2↓"...introduced in Sect. 5.4.2 of the text" should read "...introduced in Sect. 6.3.2 of the text"
- p. 425 line 16 \(\) "\(\gamma = [\gamma_{i,j}]_{i,j=1,...,k} "\) should read "\(\gamma = [\gamma_{i,j}]_{i,j=1,...,d} "\)
- p. 432 line 3[†] "compute" should read "computes"
- \bullet p. 452 line 19
† "NY" should read "N"
- p. 555 line $11 \downarrow$ " $y = z + \sigma \sqrt{T t}$ " should read " $y = z \sigma \sqrt{T t}$ "