Errata & Addenda

Object Oriented Data Analysis

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Page 134, line 19: useful. 🡪 useful, in particular this way of measuring error is the foundation of least squares and the Analysis of Variance.

Page 134, line 25: The 🡪 On the

Page 134, line 26: other. When 🡪 other. However, it is a proper metric when the data objects lie on the sphere . When

Page 138, Caption of Figure 7.4: invariance. 🡪 invariance of notions of multivariate median.

Page 142, line -16: e.g. as 🡪 e.g. as done through display of curve modes of variation shown in many places starting with Figure 1.4 for the Spanish Mortality data and as

Page 184, Caption of Figure 8.14: indicate fibers 🡪 indicate approximately parallel fibers

Page 211, bottom: Append a new paragraph: A related research area is currently called *connectome analysis*, where the goal is understanding connections in the human brain. When that is studied at the population level, the issue of what should be the data objects becomes central. Many approaches are based on bundles of fibers. Campbell et al. (2021) have proposed a particularly innovative approach based on Riemannian metrics as data objects. Variation is then studied in the space of Riemannian metrics.

Page 220, bottom: After the Bubenick (2015) reference, add a new sentence: Persistence Landscapes have been integrated with the phase shift - alignment ideas of Chapter 9, in a more recent and interesting analysis of the brain artery data, by Matuk et al. (2021).