## CORRECTION

## STATISTICAL MODELING AND ANALYSIS OF TRACE ELEMENT CONCENTRATIONS IN FORENSIC GLASS EVIDENCE

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**1. Paper figures.** The abcissa on certain figures in "Statistical Modeling and Analysis of Trace Element Concentrations in Forensic Glass Evidence" [Pan and Kafadar (2018)] and the corresponding supplement have been corrected. Estimated match rates are around 20–30% lower than originally stated (when the true relative difference in concentrations is less than 15% in all elements); however, the main results and conclusions of the paper remain unchanged. Two samples that come from batches whose mean log concentrations differ by  $\delta = 0.1$  (roughly 10%) in all 17 elements would not be "considered distinguishable" [ASTM International (2016), Section 11.1.7] 62.22–65.41% of the time using the covariance matrix estimate from the German data, and 77.18–78.14% of the time using the estimate from the Canadian data set. Affected figures and tables below are labeled corresponding to Pan and Kafadar (2018). Section 2 contains corrected supplemental figures and tables.

0.05	0.1	0.15	0.2	0.25	0.3
	(a) C	anadian data ma	tch rates		
0.991	0.781	0.103	0.024	0.006	0.003
0.997	0.773	0.018	0.000	0.000	0.000
0.998	0.775	0.006	0.000	0.000	0.000
0.999	0.772	0.000	0.000	0.000	0.000
	(b) (	German data mat	ch rates		
0.968	0.622	0.016	0.003	0.001	0.001
0.988	0.638	0.001	0.000	0.000	0.000
0.989	0.648	0.000	0.000	0.000	0.000
0.990	0.654	0.000	0.000	0.000	0.000
	0.05 0.991 0.997 0.998 0.999 0.968 0.988 0.989 0.990	0.05 0.1   (a) C   0.991 0.781   0.997 0.773   0.998 0.775   0.999 0.772   (b) C 0.968   0.988 0.638   0.989 0.648   0.990 0.654	0.05 0.1 0.15   (a) Canadian data ma (a) Canadian data ma   0.991 0.781 0.103   0.997 0.773 0.018   0.998 0.775 0.006   0.999 0.772 0.000   (b) German data mat 0.968 0.622 0.016   0.988 0.638 0.001 0.989 0.648 0.000   0.990 0.654 0.000 0.000 0.000 0.000	0.05 0.1 0.15 0.2   (a) Canadian data match rates   0.991 0.781 0.103 0.024   0.997 0.773 0.018 0.000   0.998 0.775 0.006 0.000   0.999 0.772 0.000 0.000   (b) German data match rates   0.968 0.622 0.016 0.003   0.988 0.638 0.001 0.000   0.989 0.648 0.000 0.000   0.990 0.654 0.000 0.000	0.05 0.1 0.15 0.2 0.25   (a) Canadian data match rates   0.991 0.781 0.103 0.024 0.006   0.997 0.773 0.018 0.000 0.000   0.998 0.775 0.006 0.000 0.000   0.999 0.772 0.000 0.000 0.000   (b) German data match rates   0.968 0.622 0.016 0.003 0.001   0.988 0.638 0.001 0.000 0.000   0.989 0.648 0.000 0.000 0.000   0.990 0.654 0.000 0.000 0.000

TABLE 3 Canadian and German data simulation match rates at various δ

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