# A Multi-Purpose Equivalence Estimator for Quantitative Career Matching

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**Abstract**

lalala dsds.

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lalala (Lalala, 1919).

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dsds (Ds, 1919)

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## 2.2 A Multi-Purpose Equivalence Estimator

The linear-logistic trigonometrically-scaled equivalence estimator:

$$\mathrm{eq}(x, M) = x\left\{1 + M(1-x)\exp[-b(x-M)]\right\}^{-\frac{M}{x}}, \tag{1}$$

$$b = \tan\left[\frac{\pi}{2}\cos^{M(1-M)}\left(\frac{\pi}{2}x(1-M)\right)\right], \tag{2}$$

$$x, M \in [0, 1]. \tag{3}$$

## 2.3 Applications of the Equivalence Estimator

### 2.3.1 Skill Set Interchangeability

$$ß_{k,q} = ß(s(\boldsymbol{a_k}, \boldsymbol{a_q}), M) = \mathrm{eq}(s(\boldsymbol{a_k}, \boldsymbol{a_q}), M) \tag{4}$$

$$\mathbf{ß} = \begin{bmatrix} ß_{1,1} & \cdots & ß_{n,1} \\ \vdots & \ddots & \vdots \\ ß_{1,n} & \cdots & ß_{n,n} \end{bmatrix} = \begin{bmatrix} 1 & \cdots & ß_{k,1} & \cdots & ß_{n,1} \\ \vdots & \ddots & \vdots & \vdots & \vdots \\ ß_{1,k} & \cdots & 1 & \cdots & ß_{n,k} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ ß_{1,n} & \cdots & ß_{k,n} & \cdots & 1 \end{bmatrix} \tag{5}$$

$$\tag{6}$$

$$h_{k,q} = h(ß_{k,q}) = \begin{cases} 1, \text{if } ß_{k,q} \geq 0.5. \\ 0, \text{otherwise.} \end{cases} \tag{7}$$

### 2.3.2 Attribute Equivalence

$$\ddot{a}_i^k = \ddot{a}(\boldsymbol{a_k}, M) = \mathrm{eq}\left(\frac{a_i^k}{\max a_j^k}, M\right) \tag{8}$$

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dsdsds (dsdsds [ds], 1919)

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# References

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# Appendix