

Preface

Language, especially its spoken form, is now universally recognised as being highly complex, multidimensional and variable according to a multitude of social, contextual and affective factors (Bachman 1990). Accordingly, the taxonomy of language ability has been long arguably partitioned into a plethora of dimensions. Bachman (1990) and Bachman and Palmer (1996) propose the framework of communicative language ability (CLA), whose explanatory power and inclusiveness, as compared against the other frameworks of a similar nature concerning communicative competence, can be justified as the fittest model to which speaking assessment can be referred. In particular, deriving from strategic competence, nonverbal delivery, with its interactive and interdependent role with the accompanying verbiage, should be judged as an indispensable component in speaking assessment, especially when its promoting effect on communicativeness is considered. However, notwithstanding well-documented research might be omnipresent with regard to where learners in the Chinese EFL context are poor at, how they perform their nonverbal delivery in speaking assessment seems to be comparatively underexplored (e.g. Liu and Pan 2010a, b; Pan 2011a, b). Against this, there arises a need of examining Chinese EFL learners' oral proficiency in an all-round manner, via which a rating scale incorporating nonverbal delivery is to be formulated and validated.

With the above background as a point of departure, this research project, contextualised in formative assessment, mainly aims at (1) building an empirical argument of embedding nonverbal delivery into speaking assessment; (2) developing a rating scale, with nonverbal delivery included as a dimension, for assessing candidates' communicative competence in group discussion; and (3) cross-validating the proposed rating scale with multi-trait multi-method (MTMM) as well as multimodal discourse analysis (MDA) approaches. These three aims also constitute the three phases of research (henceforth AB phase, RSF phase and RSV phase, respectively) for the present study.

The data of this project are 150 samples of group discussion by Chinese EFL learners at the tertiary level in the context of formative assessment. For

phase-specific purposes, all the samples are accordingly video-recorded, transcribed, processed and analysed. Except for the 30 samples used in the AB phase, the other 120 samples are scored by expert raters, teacher raters and/or peer raters specific to the design of the latter two research phases.

In the AB phase, this study conducts an empirical study to explore the role of nonverbal delivery in Chinese EFL candidates' performance in group discussion, particularly how candidates across a range of proficiency levels can be discriminated with regard to their nonverbal delivery. In a sense, if nonverbal delivery can statistically discriminate the candidates of predetermined proficiency levels, an argument of incorporating nonverbal delivery into speaking assessment can be accordingly advanced. The descriptive, comparative and extrapolative statistics in this phase of study find that although there seems to be a generally low profile of employing nonverbal delivery by the observed candidates in group discussion, they can be statistically discerned vis-à-vis eye contact, gesture and head movement.

Candidates of advanced proficiency are characterised by higher frequency and longer duration of eye contact. Elementary-level candidates, though featuring a high frequency of eye contact occurrences, are inclined to shift their gaze hurriedly and not able to instantiate durable eye contact with the peer discussants. In addition, rather than enhance communication effectiveness, most occurrences of their eye contact, if not all, serve regulatory or adaptive purpose. Although intermediate-level candidates are found to present eye contact with their peers, the degree to which their eye contact can serve attentive purpose would be more impaired compared with the advanced-level counterparts. Candidates' gestures can be mainly distinguished from the perspectives of frequency, diversity and communication-conduciveness. Advanced candidates would be able to perform satisfactorily in all of the above measures, whereas candidates of elementary proficiency level are found to maintain an extremely low profile of resorting to gestures in accompanying their verbal language. Although intermediate-level candidates can be judged to perform well in gesturing frequency and diversity, a number of gesture occurrences are found to serve adaptive or performative purpose, failing to be a remarkable enhancer for intended meaning conveyance. When head movement is probed into, head nod and shake are the main manifestations. It has to be noted that, given the socio- and cultural preponderance, candidates are not significantly different in presenting lower frequency of head shake than head nod, yet whether they perform certain head movements appropriately in the given social context might be referred to as a discriminating point because candidates are found to nod even though certain negative meanings are intended.

Enlightened by the findings in the AB phase, this study draws an interim conclusion that nonverbal delivery, as reflected by eye contact, gesture and head movement, can be one of the indicators for assessing candidates' overall spoken English production and that what has been extracted to discern candidates across various proficiency levels can usefully and effectively inform how a new rating scale can be formulated consequently.

When such a rating scale is developed, two broad dimensions are perceived in the RSF phase: language competence and strategic competence. The former is

formulated by an operationalised questionnaire drawn from the related spectra of CLA model. After an exploratory factor analysis from the Chinese EFL teaching practitioners' and learners' responses to the constituents of language competence in group discussion, this study distils and organically brings forth three assessment dimensions representing language competence: Pronunciation and Intonation (D1), Grammar and Vocabulary (D2) and Discourse Management (D3). The gradable descriptors of these dimensions have been written and further fine-grained by referring to the statements in the questionnaires. Based on the review over the definitions of strategic competence and the empirical argument in the AB phase, Nonverbal Delivery (D4) is perceived as the fourth dimension on the rating scale proposed. In writing the descriptors for this dimension, what can observably and feasibly discriminate candidates regarding their nonverbal delivery in the AB phase is referred to.

A four-dimensional rating scale, therefore, is tentatively formulated, and it epitomises what would supposedly be measured in relation to communicative competence in group discussion, as guided by CLA model. Considering the fact that the expert raters' scoring reveals a high correlation between two assessment dimensions, this rating scale can be initially certified to be valid in its construct, yet it would be subject to certain modifications in wording, disambiguation and the shrinkage of bands from five to four for a higher degree of rater-friendliness.

The rating scale, afterwards, is phased into the RSV phase, where both quantitative and qualitative approaches are employed. When MTMM is deployed following Widaman's (1985) alternative model comparison method, it is found that, considering the interpretability and consistency with previous studies regarding speaking ability taxonomy, a second-order correlated trait/uncorrelated method model not only provides sound goodness-of-fit indices ($\chi^2(28) = 462.796$, $p = 0.818$; CFI = 1.000; NNFI = 1.024; SRMR = 0.015; RMSEA = 0.000; 90 % C.I. = 0.000, 0.060), but also presents divergent validity ($\Delta\chi^2(9) = 403.08$, $p < 0.001$; $\Delta\text{CFI} = 0.472$) and discriminant validity ($\Delta\chi^2(17) = 425.68$, $p < 0.001$; $\Delta\text{CFI} = 0.146$). The standardised parameter estimates and trait-method correlations reveal no method effect or bias concerning rating methods. Thus, this rating scale, with nonverbal delivery included as a crucial dimension, has been validated in a statistical spectrum.

The rating scale, especially its assessment dimension of Nonverbal Delivery, is further validated on a micro basis with an MDA approach, with a special reference to an integrated analytic framework drawn from Martinec's (2000a, b, 2001, 2004) taxonomy of action and Hood's (2007, 2011) works on nonverbal delivery. Three randomly selected candidates (pseudonyms: Tom, Linda and Diana) representing different proficiency levels are probed into concerning their *de facto* performance in nonverbal delivery. Tom, with a nonverbal delivery subscore of 1.5, is found to be rather sedentary and passive in the group discussion because only a limited number of captured nonverbal channels with ideational meanings are instantiated. A majority of his nonverbal delivery occurrences retain to be performative, or as a likely regulation to adapt himself to an assessment setting. In that sense, almost no interpersonal or textual meanings can be interpreted from his nonverbal delivery;

thus, Tom is reduced to stagnation where only the mere occurrence of nonverbal delivery employment can be captured. In stark contrast, Diana, as a representative of advanced proficiency level who is assigned a full mark in nonverbal delivery, is found to be articulate in eclectically resorting to a repertoire of nonverbal channels in accompanying her verbiage. At certain points, her nonverbal performance can also instantiate intended meanings in the absence of any synchronised verbal language. Judging from the perspective of metafunctions, she is found to be capable of realising a variety of meaning potentials via nonverbal delivery. Although she seems somewhat aggressive in group discussion, her frequent shift in instantiating different nonverbal channels with discrepant metafunctions would impress other discussants as an active and negotiable speaker as well as an attentive listener. Although Linda, whose subscore of nonverbal delivery is 3, performed quite satisfactorily in terms of formal nonverbal channels, she is found to be slightly passive and hesitant in the group discussion. In particular, when the interpersonal meaning of her gestures is looked into, she seems to be self-contained and strike a certain distancing effect on the peer discussants. The above profile of the three candidates' performance on nonverbal delivery can also be aligned with the descriptors of nonverbal delivery on the rating scale, thus lending weightier support to validate the proposed rating scale.

This research project yields significance in the sense that it organically integrates multimodal discourse analysis, a research method scarcely explored in language assessment, with rating scale validation, thus extending the literature of applying this method to more research of a similar kind. In addition, based on the research findings, how nonverbal delivery can penetrate into EFL learning and teaching is also enlightened and suggested. In particular, this thesis illuminates how EFL textbooks should be multimodally compiled for a heavier load of meaning making and how EFL teaching can be optimised with nonverbal delivery by teaching practitioners incorporated in daily instruction.

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