### **Tohoku English Language Teaching Expo**

What Factors Influence the Assessment of Speaking Interactions in Elementary School Foreign Language Education?

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# Introduction

- ☐ Implementation of foreign language education in elementary schools under the revised Couse of Study.
- □ Focus on listening and speaking skills in elementary school English classes
- Assessment through performance tests
- Needs for objective and transparent evaluation using numerical measures

## Introduction

- ☐ Teachers' language and instructional perspectives
  - ✓ verbal aspects → grammar, fluency, and pronunciation
  - ✓ non-verbal elements →eye contact, gestures, and facial expressions
- ☐ Significant variability in the criteria
  - ✓ Discrepancies in evaluation criteria between the ESAT-J test and STEP test

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## Introduction

- Appropriateness of considering non-verbal factors (e.g., eye contact, gestures, smiles) as valid criteria for assessing English speaking skills in elementary schools
- Lack of consensus on whether non-verbal factors are relevant to evaluating English speaking proficiency

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## **Previous Studies**

### Inagai et al. (2006):

- Aimed to analyze potential differences in evaluations among Japanese English teachers (JTE) and native English-speaking teachers (NTE), as well as among JTEs based on their teaching levels and experience.
- Emphasized the need for careful evaluation to minimize individual differences in assessments, which significantly influences the objectivity of evaluations.

# **Previous Studies**

#### Tamura (2022):

- Surveyed 96 elementary school teachers on their awareness of English evaluation.
- Identified challenges in evaluating speaking skills, with a significant percentage finding assessment of interactive speaking challenging.
- Advocated for teacher training to enhance assessment validity and reliability.

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## **Previous Studies**

#### Okazaki et al. (2021):

- Conducted a practical study on speaking performance evaluations in an elementary school
- Five evaluation criteria: (1) attitudes (eye-contact & vocal volume), (2) fluency, (3) accuracy, (4) response, and (5) questions
- ☐ Highlighting the test's validity, reliability, practicality, and positive effects on students' learning and motivation

## **Previous Studies**

- □ Challenges and inconsistencies in speaking skills evaluation from previous studies
- □ Appropriateness of including non-verbal factors (e.g., eye contact, gestures, smiles) as valid criteria for assessing English speaking skills in elementary schools

# **Research Questions**

Purpose of the study is to uncover the evaluation criteria in performance tests of speaking (interaction) in elementary school foreign language classes.

RQ 1: What criteria do raters emphasize in performance tests of speaking (interaction)?

RQ 2: What factors do raters use as the basis for giving high or low evaluations in performance tests of speaking (interaction)?

#### **Participants**

☐ 71 second-year university students of the Elementary School Course of the Education Faculty.

- Majority aspiring to become elementary school
- Background knowledge in teaching methods for elementary school English education

#### **Materials**

- Seven distinct performance test videos for the evaluation
- Hypothetical performances in English language tests between elementary school students and teachers, acted out by university students

#### Seven types of performances emphasizing different aspects:

- perfect performance (PF)
- ☐ grammar errors (GA)
- katakana pronunciation (PA)
- □ pauses (FL)
- $\square$  no gestures (GT)
- no eye-contact (*EY*)
- □ insufficient voice volume (VL) ■

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# Method

### Seven types of performances emphasizing different aspects:

- ☐ Shared script for the interactions to eliminate the influence of factors other than the six criteria
- Holistic and analytic evatuation
- four-point scale evaluation (4 = Very High, 3 = High, 2 = Low, 1 = Very Low)
- ☐ Free-response section for reasons for the evaluations

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# Method

#### **Procedure**

- 1. Teams have the files for the seven self-introduction videos.
- 2. Assuming they are recordings of elementary school students' performance tests for "Unit 1: Self-introduction"
- 3. Providing a four-point scale holistic assessment with the reason
- 4. Providing a four-point scale analytic assessment based on six criteria (grammar accuracy, pronunciation accuracy, fluency, gestures, eye contact, and voice volume)

#### **Data Analysis**

- Multiple regression analysis
  - ✓ Dependent variable: holistic evaluation
  - ✓ Independent variables: analytic evaluation for six criteria

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- ☐ Highlighting criteria prioritized in participants' evaluations
- Text mining (correspondence analysis)
  - ✓ External variables: four-scale holistic evaluations

#### **Descriptive Statistics**

	M	SD	Min	Max	95% CI
perfect performance	4.00	0.00	4.00	4.00	[4.00, 4.00]
grammar errors	2.24	0.73	1.00	4.00	[2.39, 2.08]
katakana pronunciation	2.76	0.57	2.00	4.00	[2.87, 2.63]
pauses	2.47	0.55	1.00	4.00	[2.58, 2.35]
no gestures	2.97	0.54	1.00	4.00	[3.07, 2.85]
no eye-contact	2.39	0.64	1.00	4.00	[2.52, 2.25]
insufficient voice volume	3.16	0.65	1.00	4.00	[3.29, 3.02]

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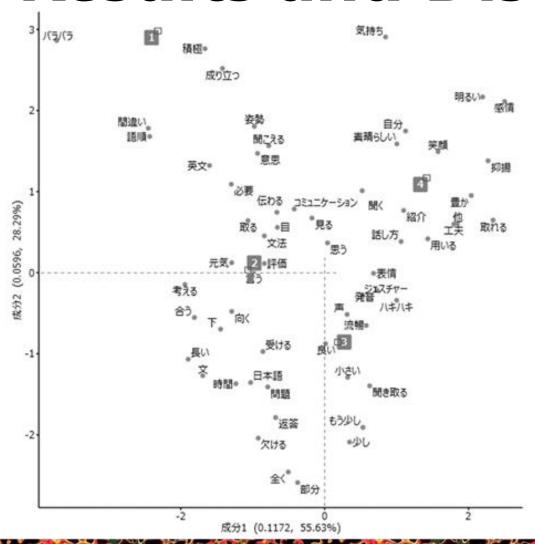
### **Results of Multiple Regression Analysis** ( $R^2 = .53$ )

Independent Variables	B	SEB	$\beta$
grammar accuracy	0.34	0.02	0.43**
pronunciation accuracy	0.14	0.03	0.16**
fluency	0.17	0.03	0.23**
gesture	0.13	0.02	1.18**
eye-contact	0.28	0.02	0.38**
voice volume	0.13	0.03	0.15**
intercept	- 1.07	0.02	

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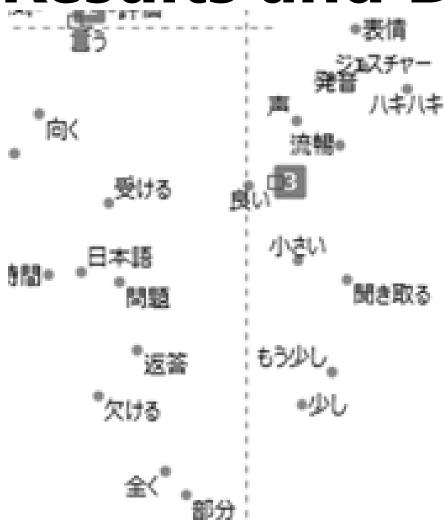
- All six independent variables (grammar accuracy, pronunciation accuracy, fluency, gestures, eye contact, and voice volume) are statistically significant.
- **□** grammar accuracy ( $\beta$  = 0.43) → eye contact ( $\beta$  = 0.38) → fluency ( $\beta$  = 0.23) → gestures ( $\beta$  = 0.18) → pronunciation accuracy ( $\beta$  = 0.16) → voice volume ( $\beta$  = 0.15).
- The participants base their speaking evaluations on grammar accuracy → eye contact → fluency.

- $\square$  The coefficient of determination ( $R^2$ ) = 0.53,
- 53% of the variance in the overall evaluation can be explained by the six independent variables.
- What are the other factors besides the six criteria?



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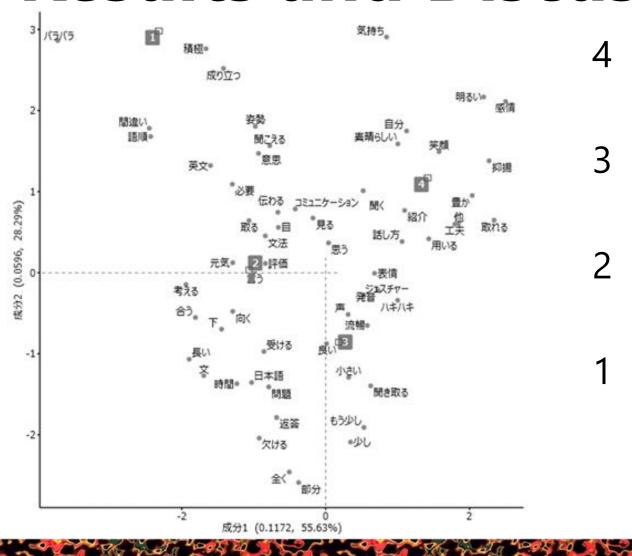


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## Conclusion

- □ Factors influencing assessments
  grammar accuracy → eye contact → fluency
  53% of overall evaluation is explained
- Non-Verbal Factors

# **Pedagogical Imprecations**

- necessity of rubric?
- validity of including non-verbal elements as a criteria of speaking evaluation

- speaking tests gain prominence in high school and university admissions
- a potential risk that raters can be influenced by non-verbal factors.