

**CHINESE PIANO  
TEACHER'S EXPERIENCES:  
THE INTELLIGENT PIANO  
TECHNOLOGY INTEGRATED  
INTO GENERAL MUSIC  
EDUCATION CURRICULUM**



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# Intelligent-Brand Piano

- *Electronic screen*
- *Makes music and piano courses accessible on the screen*
- *Visual aid -waterfall game*



# Mainland China's Music Education System

- A unique phenomenon in music education known as the Piano Craze.
  - Preparation of music teachers in China has evolved since the introduction of Western teaching methods in 1999
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# Problem Statement

Piano Craze: China's piano education is developing rapidly.

Teachers are struggling.

Technological innovations provide music teachers with packaged curriculum and pedagogical tools.

Very little is known about intelligent-brand piano use and the music teachers who have altered their practices to incorporate it.

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# Purpose of the Study

To explore a particular aspect of the phenomenon of the  
Piano Craze in China:  
the experiences of Intelligent-Brand piano teachers when  
incorporating the technology into their music lessons.

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# Population and Sample

Intelligent-Brand Piano teachers who are actively teaching students in China.

17 participants, one per province.

Participants: one school year of teaching using the Intelligent Piano.

325 Intelligent Brand Piano Teachers.

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# Research Method

- Qualitative interview study.
- Semi-Structured Interviews.



# Data Collection Method



One 45-minute interview with each participant



open-ended interview protocol allows participants to answer as they see fit



The researcher can understand the phenomenon from the participant's perspective (Creswell & Poth, 2016; Creswell & Creswell, 2017).

28 aligned, semi-structured research questions plus follow-up questions.

Mandarin interview  
- bilingual translator checks transcription.

Zoom audio conferencing with audio recording.



# Five Themes After Analysis

- (a) Operation can be difficult at the beginning.
  - (b) Increasing teaching processes and student efficiency.
  - (c) Pitch and rhythm.
  - (d) Lesson planning.
  - (e) Comprehensive curriculum design.
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# Study's Results

1. The first theme that emerged under the first research question was that a significant challenge was understanding the Intelligent-brand piano system. Many of the participants reported that due to the large amount of content that the Intelligent-Brand Piano contained, it took them a while to absorb the knowledge, which was quite overwhelming.
2. The second theme of this study highlighted how the participants reported that they had to change their teaching styles when instructing their students via an Intelligent-brand piano. The participants reported that after learning the complexities of the Intelligent-brand piano's systems, there are benefits that include increasing teaching processes and student efficiency.
3. Some participants observed that when students used the Intelligent-brand piano system when recognizing the pitch, they sometimes did not recognize the specific pitch but with a guess. If the student played the wrong note, the screen would display a red cursor as a reminder, and students would play until the green cursor appeared before they continued playing the following note. Moreover, some participants reported that some of their students needed to pay more attention to the rhythm patterns. At this stage of the Intelligent-brand piano, it can only determine the pitch's correctness but not the rhythm's correctness.
4. many participants reported that they had to strengthen their teaching practices to address the pre-developed lesson plans that are a part of the Intelligent-brand piano system. Many participants reported that they did not need to develop lesson plans as they were already contained within the Intelligent Brand system, which allowed them to focus more on their teaching practices.
5. The participants reported being more effective teachers because of the comprehensive curriculum design. Although limited studies have focused on the curriculum design of the Intelligent-Brand Piano, some research highlights the importance of having a solid curriculum when teaching music and piano via technology. For example, several scholars argued that using digital technology in the classroom is not the source of the changes in learning but how they are employed.

# Implications & Limitations

## **Implications:**

- Intelligent-brand piano teacher training.
- Overcome issues with pitch and rhythm.

## **Limitations:**

- The qualitative method and design selected for this study--researcher followed a qualitative study and bias could have been injected into the research.
  - The researcher conducted the interviews in Chinese-- the interviews had to be translated.
  - The geographical region where the study took place-- results may not be generalizable
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# Recommendations for Future Research

- Following the themes that were derived.
  - Could also be quantitative.
  - Larger sample sizes.
  - Focus on students' study.
  - Significant for U.S. and Chinese
  - Piano/music teachers.
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# Significance

- Easily include this technology into their music lessons .
  - Allowing their students to experience stronger music education experiences.
  - China's music education field can continue building stronger.
  - More effective music programs that include stronger components of technology.
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# Thanks for Watching !

Questions? Comments?

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