Thesis Proposal Approval Form (Full version)

Doctor of Philosophy Program in Visual Arts and Design

Master Degree ☒ Thesis ☐ Independent Study

☐ Doctoral Degree ☐ Plan 1 ☒ Plan 2

Admission in semester ....1...../...2024..... **Termination in semester** .....3...../....2029 .....

Consistent with the strategic issues of graduate research

Strategic Plan .....

Strategy .....

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Miss Yang Yue Student ID 67U74610106	A Study of the Aesthetic Aspects of Traditional Zhuang Dwellings in Guangxi Province for 3D Model-Based Database Development.	**1. Advisory committee** Asst. Prof. Dr.Omsiree Pandamrong Asst. Prof. Dr.Kridtayot Comeming
	Background and significance of the problem The Zhuang（壮） people are one of the peoples with the largest population made up. They are present-day Chinese and are one of the oldest indigenous peoples, although they have slowly merged with the Han people until now. From the 7th census in AD 2020 The population of Jingxi City In the southwest of Guangxi Province, there are more than 47 million people, which is almost the population of Zhuang. All are therefore known as "(Guangxi Zhuang Autonomous Region Department of Civil Affairs et al., 2024) All of them are therefore known as "Zhuang Village in Zhuang City". The settlement of the Zhuang people has unique characteristics. A result of the environment of Guangxi Province in terms of the architectural residence of the Zhuang people. The origin of distinctive characteristics comes from the fusion of usable space needs with efforts to respond. natural environment Such characteristics are being threatened by modern needs. Both in terms of usability Nowadays, technology affects living, the expansion of roads and Modern traffic, etc. When housing is renovated, original architecture is often demolished. One important problem is that the new generation lacks understanding of the importance of	**2. Student's signature** Yang Yue ..... (Miss Yang Yue) 24/10/2025 **3. Thesis advisor's signature** ..... (Asst. Prof. Dr.Omsiree Pandamrong) 6/10/2025 **4. Chairperson of Program's Signature** ..... (Asst. Prof. Dr.Kridtayot Comeming) 6/10/2025

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	heritage. Their own culture does not understand the beauty of architecture that was born from environmental conditions. Surrounded by nature and traditional craftsmanship. In summary, the outstanding features of Zhuang architecture can be divided into two types: dry railing houses that It is a combination of stone and wood materials with crutches. Both types of architecture are basic. of all Zhuang residential houses Preservation according to the measures of the announcement of the list "Geographical Names and Cultural Heritage of Thousand-Year Provinces and Thousand-Year Cities" 2024 held in cooperation with many departments in Guangxi Zhuang Autonomous Region.(People's Government of Guangxi Zhuang Autonomous Region, 2024) Three-dimensional modeling is the process of creating an architectural model that consists of details of proportions and construction techniques at various points. Studying with this latest technique, in addition to providing an architectural model for the study of architectural history. For future conservation The use of these techniques will help make the data applicable for creation. Media that will play a motivating role The public and the new generation who are good at and interested in this type of media, attracting the new generation is extremely important. For preserving this type of cultural heritage, the programs that will be used include grassroots programs such as Sketch Up, Lumion and Auto CAD, etc., then analyzed to create knowledge. In-depth digital media that can scan QR codes to be accessible to the public and for An exhibition that will reach a wide audience who will access the beauty of architecture from various aspects.	
	Research questions 1. What are the unique characteristics of Zhuang house architecture?	

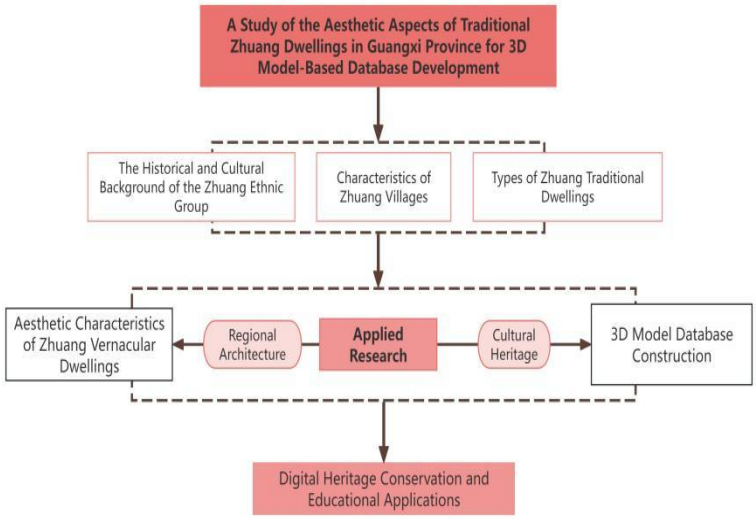
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	2. What should basic information on local architecture that has the potential to be applied for studying various approaches look like? 3. The possibility of creating media from basic information for the wider public in the case study of local architecture. What should the presentation and access look like? 4. Can the beauty of Zhuang architecture be presented on a wide scale? If so, what should it look like?	
	Research objectives 1. Study the traditional dwellings of the Zhuang tribe and create a database. Both in terms of architecture, high-quality photographs and construction technical information that are ready for Create media for broad public. 2. To analyze the distinctive features of the tribe's traditional residential architecture. Zhuang in each form to create knowledge in understanding the history and geography of China. 3. Use the method of making digital video display to make videos of Zhuang life and architecture, which are used as the communication medium for exhibition, and show the traditional residential buildings of Zhuang people.	
	Research hypothesis Creating a standardized database will make it possible to apply it to other fields of study. Widely, while creating a standardized database will make it possible to design media to Present the value and beauty of Zhuang architecture to the public, the media design department For the good public, it will create awareness of the value and beauty of architecture. local karma	
	Research limitations (if any) 1. Limitations of the scope of sample coverage This research chose to study 15 real building samples, covering the main types of traditional housing of the Zhuang people. However, due to the limitations of geographical distribution and conservation conditions of the sample	

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	buildings studied, it is still It cannot cover the diversity of housing in every abbreviation group. of the Zhuang people throughout the administrative area Guangxi itself. This may make the summary of the aesthetic characteristics of Zhuang folk architecture have Limitations in terms of space 2. Limitations on the accuracy of technical data collection and modeling. Various technologies such as drone slope photography. High-resolution image recording Three-dimensional building models and human-hand measurement are all very accurate in modeling road parts. Complex architecture is limited by equipment and environmental parameters. Field siege. Some artisan details also require expert interviews and verification from. Accompanying historical documents, which brings the risk of discrepancies between technical data. with anthropological data. 3. Limitations of publishing evaluation Video media and public relations in the form of code scanning For studying and analyzing the structure of public buildings, the impact on communication is required. Long-term follow-up study, but this research focuses only on the development of media formats and initial presentations. During this period, it is not yet possible to quantitatively assess the influence. for cultural inheritance	
	Research conceptual framework (Please specify the theoretical concept) Since the past, the Zhuang people have had appropriate architectural design and construction guidelines. Consistent with the way of life and living in the natural environment, the use of materials resulting from construction techniques. Construction is simple, not complicated, but beautiful within the framework of its own concept. This type of architecture in addition It should be preserved so that it can be passed down further and ways should also be sought. In disseminating information in terms	

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	Photographs of media architecture that can be accessed by the wider public as a model for education. The same characteristics in China in the future.  	
	Operational definitions 1. Traditional Zhuang Dwellings The traditional Zhuang dwellings in this study refer to the residential building system built by Zhuang craftsmen with traditional construction skills in Guangxi Zhuang areas, including three typical forms: stilted, semi-stilted and ground dwelling. The research objects are mainly 10 typical samples in Jingxi City and its surrounding areas, and 15 representative cases are focused on. 2. Architectural Aesthetic Characteristics It refers to the aesthetic laws presented in the material carriers of Zhu ethnic dwellings. This study will realize quantitative analysis and visual expression through three-dimensional modeling from the characteristics of construction aesthetics, spatial aesthetics and symbolic aesthetics. 3. 3D Model Database The Zhuang traditional residential building information integration system based on digital technology mainly	

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	simulates the real environment through computer 3D modeling (SketchUp, Lumion, AutoCAD), and presents it through digital deconstruction media and exhibitions accessible by scanning code. 4. Digital Dissemination of Cultural Heritage Through literature review, field investigation, data analysis, expert interview and other methods, 3d modeling, virtual reality and other technical means are used to realize the innovative inheritance of Zhuang architectural culture. Through digital deconstruction media and exhibition devices that can be accessed by scanning the code, the majority of visitors can appreciate the beauty of architecture from multiple perspectives.	
	Methods of conducting research (in brief) 1. Research method: Mixed Methods (combining qualitative and quantitative analysis) 2. Population and sample: 15 representative traditional Zhuang dwellings and villages in Jingxi City and surrounding areas of Guangxi, covering three types: stilted, semi-stilted, and ground-level dwellings. 3. Sampling method/Target group selection: Purposive sampling, based on architectural typology, geographical distribution, preservation status, and cultural representativeness. 4. Research variables: -Structural type (stilted/ground-level) -Spatial layout -Decorative symbols -Building materials -Functional use -Cultural symbolism 5. Research instruments: -Architectural surveying tools (laser distance measurer, drawing board) -High-resolution digital cameras and drones	

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	-Semi-structured interview guides -Digital tools: AutoCAD, SketchUp, Lumion -Self-built database platform 6. Data collection: -Literature collection and categorization (historical documents, archaeological reports, academic papers). -Field surveying and photographic documentation. -In-depth interviews (scholars, craftsmen, local administrators). -Digital transcription (CAD drawings, 3D modeling). 7. Data analysis/Statistical analysis methods: -Comparative analysis (identifying architectural similarities and differences). -Scale and unit analysis (comparing traditional and metric units). -Spatial and symbolic interpretation (combining semiotics and aesthetic theory) -Visual analysis (timelines, comparison tables, 3D models).	
	Expected benefits 1. A database was created about the traditional residential architecture of the Zhuang tribe. That is a standard for further study in various aspects for a variety of fields of knowledge in Continuing towards awareness of the value for heritage conservation. 2. Strengthen academic knowledge of the architectural history of the Zhuang people. and linked with other architecture in China, the distinctive characteristics of the architecture can be distinguished. Each type and each building 3. An exhibition was held to disseminate knowledge about Zhuang architecture that will be the basis. For creating media and exhibitions for other local architectures in China in the manner of of the model for further adjustment	

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