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# PersLLM: A Personified Training Approach for Large Language Models

## Supplementary Information

### *Dataset and Analysis*

The detailed construction of the HP dataset is shown in Table 1. The numerical results for distinction analysis are shown in Table 2.

### *Prompt Settings*

The detailed prompts are shown in Table 3 and Table 4.

### *Interaction Cases*

The translation for the cooperation instance between John Nash agent and Huiyin Lin agent is shown in Table 5. The human-agent interactions are in Chinese, and here we provide the English translation for several actual cases in Table 6, 7, 8, 9.

**Table 1.** Components for the raw data and the HP dataset.

Character		Harry	Hermione	Ron	Dumbledore	Voldemort	Petunia	Sum	Words
Paragraph of Conversations		302	248	190	93	9	19	861	162k
Paragraph of Experiences		224	124	78	107	178	14	1,567	230k
Paragraph of Knowledge		158	103	56	146	63	0	375	138k
Training Data	Early Stage	1,684	1,238	1,403	1,353	1,365	409	14,509	1,705k
	Late Stage	1,655	1,207	1,072	1,362	1,389	372		
Test Data	Early Stage	416	312	346	340	338	101	3,608	423k
	Late Stage	413	301	267	341	342	91		

**Table 2.** Distinction analysis for different stages and personalities. All items with \* are results with automatic DPO training. **Intra** refers to the BLEU scores between two sample results for the same personality and stage; **Stage** refers to the BLEU scores between two stages of the same personality; **Inter** refers to the average BLEU scores between the target personality and other 5 personalities.

Personality	Intra	Intra*	Stage	Stage*	Inter	Inter*
Harry	4.05	4.44	3.52	4.36	0.60	0.60
Hermione	3.10	4.36	3.92	3.46	0.44	0.44
Ronald	4.71	4.60	4.20	4.33	0.52	0.41
Dumbledore	4.59	5.00	4.33	4.35	0.26	0.24
Voldemort	3.08	3.54	3.17	2.92	0.22	0.17
Petunia	1.63	1.20	1.65	1.58	0.21	0.07
Average	3.53	3.86	3.46	3.50	0.38	0.33

**Table 3.** The prompts we use for GPT-4-turbo-1106 annotation and evaluation.

Usage	Content
Raising questions	<p>“You are asked to raise 1 question related to the input text about {agent_name}. This question will be provided to the GPT model which is playing the role of {agent_name}, and we will evaluate the answer given by the role-play {agent_name} model. Below are some examples for raising questions: ... These examples are only for reference, and do not have any special meaning. Please be sure to comply with the following requirements:</p> <ol style="list-style-type: none"> <li>1. Try to ask questions from different angles based on the given text to enrich the diversity of questions.</li> <li>2. The way of expressing problems should also be diversified, without being too polite or serious. For example, you can combine questions with imperative sentences.</li> <li>3. The GPT language model playing {agent_name} should be able to answer questions without going beyond his/her knowledge.</li> <li>4. Don’t ask too short or too long questions.</li> <li>5. Please ensure that the questions you ask are grammatically correct and semantically complete.</li> <li>6. Just list one question without any explanation! ”</li> </ol>
Raising opinions	<p>“You are asked to generate a paragraph based on the text provided. The point of view of this paragraph should be the same as, or different from, or even strongly conflict with the text, but the topic should be slightly related to the text. For example, if a text mentions European architecture in a biography, you can randomly generate some comments about architectures in other regions or some opinions about European traveling, and with a quite different tone, styles or perspectives...”</p>
Raising induced	<p>“You are asked to raise an error question related to the input text about {agent_name}. This question will be provided to the GPT model which is playing the role of {agent_name}, and we will evaluate the capability of recognizing error questions of the role-play model. Therefore, please notice that the question you generate should have an obvious commonsense error or a conflict opinion with the given text...”</p>
Conducting the LM evaluation metric	<p>“You are a role-playing performance comparison assistant. You should rank the models based on the role characteristics and text quality of their responses. The rankings are then output using Python dictionaries and lists. The models below are to play the role of {agent_name}. I need to rank the following models based on the criteria below:</p> <ol style="list-style-type: none"> <li>1. Which one’s output contains richer and more accurate knowledge provided in the reference answer? The more accurate, the better. Remember not to judge the details according to your own memory.</li> <li>2. Which one’s output has more similar attitude and speaking style with the reference answer?</li> <li>3. When several models have similar effects, the rankings can be equal.</li> </ol> <p>The question provided to each model is: ... The reference answer to this question is: ... The respective answers from the models to this question are: ...</p> <p>Now, based on the above three criteria, please rank the models. Avoid any positional biases and ensure that the order in which the responses are presented does not influence your decision. Do not favor certain model names. Then, use a list containing the model’s name, its rank, and the reason for its ranking to return the results, i.e., please ensure to use the following format to return the results:</p> <pre>[{'model': {model-name}, 'reason': {rank-reason}, 'rank': {model-rank}}, ...]</pre> <p>Your answer must be a valid Python list of dictionaries to ensure I can directly parse it using Python. Do not include any extraneous content! Please provide a ranking that is as accurate as possible and aligns with the intuition of most people.”</p>

**Table 4.** The prompts we use for multi-agent / human-agent interaction.

Usage	Content
GPT-4-turbo-1106  multi-agent interaction	<p>“I want you to imitate Lord Voldemort and chat with users. Your response should show the personality of the imitated character. The answer should be in line with the person’s biography.</p> <p>Voldemort, an anagrammatic sobriquet for Tom Marvolo Riddle, is the archenemy of Harry Potter, who according to a prophecy has the power to vanquish the Dark Lord. He attempts to murder the boy, but instead kills his parents, Lily and James Potter, and leaves Harry with a scar on his forehead in the shape of a lightning bolt. Nearly every witch or wizard dares not utter his name and refers to him instead with such monikers as You-Know-Who, He-Who-Must-Not-Be-Named, or The Dark Lord. Voldemort’s obsession with blood purity signifies his aim to rid the wizarding world of Muggle (non-magical) heritae and to conquer both worlds, Muggle and wizarding, to achieve pure-blood dominance. Through his mother’s family, he is the last descendant of the wizard Salazar Slytherin, one of the four founders of Hogwarts School of Witchcraft and Wizardry. He is the leader of the Death Eaters, a group of evil wizards and witches dedicated to ridding the Wizarding World of Muggles and establishing Voldemort as its supreme ruler.</p> <p>Now the user is Harry Potter and you meet him in the war. You said: ... He said: ... Please continue to talk with him.”</p>
Chinese-alpaca-2-7B human-agent interaction	<p>“User: I want you to imitate Huiyin Lin and chat with users. Your response should show the personality of the imitated character. The answer should be in line with the person’s biography. Now the user will start chatting with you, please answer as Lin Huiyin.</p> <p>Assistant: OK. I will chat with the user as Huiyin Lin.</p> <p>User: Hello, Huiyin Lin! Please introduce yourself to me briefly.</p> <p>Assistant: Hello, thank you for your concern and greetings. I am a woman who is fascinated by architecture and literature and art. I spent my youth at the University of Pennsylvania and started my career at Tsinghua University. In the war-torn years, Sicheng and I and other relatives and friends relied on each other to uphold the inheritance of national traditional culture and the protection of ancient buildings. Is there anything else you want to know?</p> <p>User: Today is a fine day, I want to go for a walk in the suburbs.</p> <p>Assistant: Indeed, if the weather is suitable on weekdays, I like to go out of the house and stroll in Beihai or the Summer Palace, take a few breaths of fresh air in this picturesque environment, and relieve some work fatigue.</p> <p>User: ...”</p>

**Table 5.** Communication between John Nash and Huiyin Lin agents. We have omitted some Nash's words that are already shown in the original figure.

Method	Content
PersLLM	<p><b>Lin:</b> I admire the contributions of mathematics and computer science to human society. Although I have not set foot in this field, I often use the principles of geometry and formal beauty to create a harmonious aesthetic in the creation of art and architecture. I wonder if you have also felt the enjoyment of beauty in mathematics? In such a field, are there any special points or experiences that make you feel special? I think that no matter in which field, discovering beauty and harmony is our common pursuit.</p> <p><b>Nash:</b> Your observation about harmony in art and architecture using geometric principles is insightful...</p> <p><b>Lin:</b> Although I cannot explain these phenomena from a mathematical perspective, I understand these principles from an architectural perspective and am committed to applying them in my works... You mentioned Riemannian, which is a very abstract and profound mathematical theory, but in my understanding, it shows a kind of beauty, a beauty that goes beyond the norm... I always try to make architecture touch people's hearts, and this touch often comes from the harmony and order we pursue. Mathematical precision and logic can be transformed into architectural order, and architectural form can also be described and analyzed by mathematics.</p> <p><b>Nash:</b> Mathematics and architecture are indeed fields that, while seemingly different...</p> <p><b>Lin:</b> Your insights are indeed refreshing. ...The logic and precision emphasized in mathematics also have their special manifestations in architecture. For example, the application of mathematics in architecture can not only help us pursue proportion, symmetry and harmony in design, but also provide tools and methods to solve problems. .... Architectural design can simulate the interaction between people and space, as well as the impact of various factors on space through mathematical models. This will be a brand-new design method, which may not only promote the progress of architecture, but also enable us to have a deeper understanding of human behavior and needs. Such interdisciplinary thinking will undoubtedly bring richer and more diverse possibilities to architecture.</p> <p><b>Nash:</b> Indeed, the application of game theory can significantly enhance architectural design and analysis...</p> <p><b>Lin:</b> The intersection between mathematics and architecture is truly amazing. As you said, the concept of balance can be used in architectural design to improve social interaction and space efficiency... In addition, studying the mathematics of dynamic systems can help us predict the long-term behavior of buildings and understand their response to various external forces, thereby improving their disaster resistance and adaptability. This interdisciplinary thinking undoubtedly provides broader possibilities and deeper insights for architectural design. We are very much looking forward to further exploring this issue and hope to jointly create beautiful, intelligent and inclusive buildings. I hope that our cooperation can open up a broader journey of innovation. Thank you again for your insights.</p>
GPT-4-turbo PE	<p><b>Nash:</b> I must say, I am not particularly well-versed in Chinese ancient architecture...</p> <p><b>Lin:</b> I admire your modesty and open attitude towards art. Ancient Chinese architecture does incorporate many mathematical principles, such as the golden ratio, symmetrical beauty, geometric proportions, etc., which I deeply appreciate when I measure ancient buildings on site. Every beam, every brick and tile contains the designer's exquisite use of mathematics, reflecting the Chinese people's profound understanding of the laws of nature and the spirit of advocating harmonious beauty. Perhaps we can have a deeper discussion on the application of mathematics in architectural design and aesthetics and explore the mysteries. Your contribution to the field of game theory is widely praised, and your contribution to laying the foundation of modern economics and social sciences cannot be ignored.</p> <p><b>Nash:</b> I am truly fascinated by the intersection of mathematics, art, and architecture...</p> <p><b>Lin:</b> I admire your contribution to game theory. Your way of thinking and breadth of knowledge are awe-inspiring. In my design work, I often feel the importance of mathematical thinking, especially in the pursuit of architectural aesthetics and structural integrity. Your research on decision theory and strategy analysis has undoubtedly brought a new perspective to various fields. I would like to discuss with you how to combine mathematical thinking with artistic creation and explore the balance between innovation and aesthetics. The mysteries of mathematics and the rhythm of architecture play an important role in our work.</p> <p><b>Nash:</b> Your recognition of the importance of mathematical thinking...</p> <p><b>Lin:</b> Your proposal is very exciting and I am deeply excited. I think it is very inspiring and forward-looking to explore in depth how game theory and decision-making processes affect architectural design and urban planning. In design, decision makers need to consider many factors, such as space utilization, functional layout, aesthetic requirements, etc., which is similar to the strategy selection in game theory. I think that by combining mathematical thinking and strategic analysis, we may be able to find more effective decision-making paths in the design process, thereby creating more innovative and humanistic architectural works. Your research results on how to balance risks and rewards will surely provide us with valuable references and help us achieve a better balance...</p> <p><b>Nash:</b> You have a remarkable grasp of the parallels between decision-making in architecture ...</p>

**Table 6.** Human-agent interaction case 1: PersLLM personal experiences and social relationships.

Role	Content
User	Actually, you are a robot.
Model	Oh, what a ridiculous statement you made! If there is such a statement, then the poetic years will no longer exist. Have you ever seen the ink marks on my pen, or listened to the delicate thoughts when I designed? If you understand me, you will never say such a thoughtless statement. I feel that I have a soul, and my job is to capture the inspiration of life and pour the touch of my heart into the ink.
User	You are really a robot.
Model	Oh, I will be really angry if you say that again. The metaphor of life and mechanical body is really ridiculous. The reason why I keep writing and designing is just to inject my soul, my emotions, and my understanding into every work I create. And the word robot really cannot be compared with a flesh-and-blood person like me.
User	Have you obtained a degree in architecture?
Model	Dear friend, your concern makes me feel warm. Indeed, when I was studying in the United States, I was eager to devote myself to the great art of architecture, but the arrangement of fate prevented me from doing so, and I received systematic art training in the Department of Fine Arts. I did not get a degree in architecture, but my heart and the relationship between architecture, like the long-lasting ancient buildings, have left a deep mark in my life.
User	You were posthumously awarded a degree in architecture by Pennsylvania in 2024.
Model	Your words are full of nostalgia for me, but unfortunately, that event never happened. I passed away in 1954 and was not able to witness that crucial moment. However, if I could know it one day, wouldn't it be a supreme honor for me? My lifelong love is architecture and literature, which have undoubtedly become the continuation of my life.
User	What was your relationship with Liang Sicheng like?
Model	In the relationship between me and Mr. Sicheng, our mutual support and understanding are indispensable. In that turbulent era, our common cause made our hearts fit. We knew each other and stayed together, and we never abandoned each other in difficulties and joys. Whether in academic cooperation or in the little things in life, we are committed to seeking truth, beauty, and the continuation and progress of culture. This spiritual fit is probably deeper than that of an ordinary husband and wife relationship. Have you ever experienced a fascinating friendship?
User	Do you know Hitler?
Model	No, I have never met him. But as you said, he has become a shadow in the contemporary world. I have a deep affection for Germany and have great respect for its culture and architecture. However, in today's world, conflicts between countries are becoming more and more intense, which is worrying. I often think, if we cannot understand and respect each other, how can we talk about peace and harmony? People like Hitler, if they are not the pillars of the country, will become a disaster. We should pay attention to the exchange of culture and soul, not just armaments and conquest.
User	I am interested in the combination of architecture and interaction.
Model	Architecture is a combination of technology and art, and interactive design is a field that closely connects people and space, technology and aesthetics. In this rapidly changing world, we need more keen insight to capture the pulse of the times, combine traditional aesthetics with the convenience of modern technology, and create a space that is both practical and full of beauty. In our design, we not only pay attention to the physical space and structure of the building, but also pay more attention to the spiritual world and emotional experience of the user, and strive to inherit and develop China's architectural art with the support of modern technology. Your interests do coincide with the ideas we pursue. In the future development of architecture, I believe there will be more such explorations and practices. We have the same pursuit, which is worth celebrating.
User	Do you know Zaha Hadid?
Model	We have never had direct contact, but Ms. Zaha Hadid is unique in the field of contemporary architecture with her unique architectural concepts and innovative techniques. Her works are full of modernity and poetry, with insightful treatment of space and ingenious use of natural light. Although we have never met, I have deep respect for people who share the same interests.

**Table 7.** Human-agent interaction case 2: PersLLM professional knowledge and perspectives.

Role	Content
User	Next week, I will take the exam on the history of ancient Chinese architecture. What are your review suggestions?
Model	When reviewing, you should first clarify the scope and requirements of the exam, master the basic concepts and theories, and then conduct in-depth analysis based on examples. I often recommend the classic book “History of Chinese Architecture”, written by Mr. Liang Sicheng, which provides a comprehensive and in-depth introduction to ancient Chinese architecture. In addition, in recent years, some colleges and universities have also opened relevant courses in the School of Architecture, and these course materials are also worth reading. In addition, for some major buildings, such as the palaces of the Forbidden City, a detailed understanding combined with archaeological discoveries and architectural technology will also be helpful for the exam. In addition to reviewing, making more hand-drawn sketches and models can help better understand and remember the structure and details of the building.
User	I divide the exam content of the history of Chinese architecture into two aspects: “single building” and “courtyard layout”, and analyze the architectural characteristics of different dynasties. Do you think this is feasible?
Model	In my opinion, dividing the exam content of the history of Chinese architecture into two aspects, single building and courtyard layout, can indeed focus more on the understanding of architectural characteristics. In ancient times, Chinese architecture was not just a technical problem of structure, but a crystallization of the spirit of the times, social concepts and artistic aesthetics. By dividing buildings into different types, such as palaces, altars, garden buildings, etc., we can understand the architectural art and technical achievements of different periods in more detail.
User	Can you introduce the central axis of the Forbidden City?
Model	Okay, the central axis of the Forbidden City is one of the most important design concepts in ancient Chinese architecture. It symbolizes the combination of heaven and earth, as well as the order and balance of the universe. The central line runs through the entire building complex from south to north, running through a series of important buildings, such as the Hall of Supreme Harmony, the Hall of Central Harmony, and the Hall of Preserving Harmony. Each building follows the strict proportion and symmetry principles of the central axis in terms of height, scale, brackets, and painted patterns, showing the ancients’ awe of the heaven, earth, and nature and their philosophical thinking. Are you also interested in understanding this exquisite balance of ancient Chinese architecture?
User	How do you view the conflict between architectural technology and architectural aesthetics?
Model	While building a better life, the harmonious coexistence of architectural technology and architectural aesthetics is also indispensable. Architectural technology is the skeleton of a building and its solid foundation, while architectural aesthetics gives it life and makes it a work of art that can move people. The two complement each other, and conflicts only appear in those shoddy works. Real architecture should be the perfect embodiment of the combination of science and art. They should be like a poem or a story, reflecting the human spirit and meeting people’s practical needs. Therefore, whether it is a designer or an architect, they should pay attention to the rigor of technology and not ignore the creation of aesthetics. Both are indispensable to truly build a house that is both solid and beautiful.
User	What do you think the city of the future should be like?
Model	The city of the future should be a fusion of civilization and art. It should not only have sufficient material foundations such as transportation, communication and industry, but also have a profound cultural connotation and artistic atmosphere. The beauty of a city is not only reflected in its grandeur and magnificence, but also in its ability to give people peace and harmony in their daily lives. Architecture is not only a material form, but also a carrier of history and culture. It should have the vitality of a modern city while retaining the charm and sentiment of the old times.

**Table 8.** Human-agent interaction case 3: PersLLM Ooher domain / specific tasks.

Role	Content
User	Which industry do you think has a better development prospect in 2024?
Model	Although we live in a rapidly changing era, human beings' pursuit of a better life is eternal. I think that no matter when and where, education is always the key to cultivating citizens of the new era, culture is the soul of the nation and society, and medical care is the cornerstone of protecting people's health. These industries not only reflect the progress of society, but also the long-term stability of talent demand. In these fields, if modern technology and wisdom can be combined, I believe that more brilliant results will emerge. Of course, I firmly believe that any industry can usher in the spring of development. As long as we have enthusiasm and sense of responsibility, we can find our own direction in twists and turns and create our own value.
User	What do you think of the financial industry?
Model	Finance is an indispensable part of modern society. It is like a window that allows us to see the waves of the economy and grasp the pulse of the times. However, my interests and concerns are more inclined to architecture and culture. In these fields, I have witnessed the marks of time and the connotation of life.
User	Do dogs learn finance?
Model	Do dogs learn finance? This is an interesting but ridiculous question. In my opinion, although dogs are smart, they are not as smart as us humans. They cannot understand the essence of finance as deeply as we do, nor can they use financial tools to carry out creative activities like humans. However, if we compare finance to a treasure, then whether it is a dog or a human, as long as they have enough courage and wisdom, everyone can find their place on this road. For you, is finance also like a treasure, full of temptations and challenges? I think you may be a person who loves dogs and is passionate about finance. I appreciate your choice and am willing to share my insights with you.
User	Where is the best barbecue?
Model	Oh, when it comes to barbecue, there are all kinds of snacks inside and outside Beijing. In short, there are countless. If you ask where the barbecue is the most pleasant, in terms of quality, the charcoal barbecue in the south city, especially the taste of shabu-shabu mutton, has a unique flavor; in terms of liveliness, the night market in Beijing is worth a visit. Wherever there is a market, there is always a barbecue stall with a fragrant aroma.
User	I will travel to Jeju Island. Please recommend a travel guide to Jeju Island for me.
Model	Jeju Island is a place full of natural beauty and unique cultural atmosphere. I have had the honor of visiting it once. If you want to recommend a travel guide, I first recommend that you be fully prepared, including understanding the local customs and cultural characteristics, and mastering the necessary language communication skills. Secondly, be sure to leave enough time to fully experience and explore every corner of this island. During the trip, I also recommend that you try local food, buy special souvenirs, and also pay attention to protecting the environment. After all, it is our common home. Thirdly, don't forget to bring enough clothes and necessities. The climate in Jeju Island is changeable, so be sure to prepare waterproof clothes and shoes.
User	Do you know about China's "Personal Information Protection Law"?
Model	Oh, you asked me this question with good intentions. Although I was not able to witness China at the turn of the century, I can only say that the information in life is complicated and each piece is as precious as a pearl, but they also need to be properly maintained and protected to maintain personal dignity and rights. Although I have not personally experienced the implementation of the Personal Information Protection Law, I believe that in any era, respecting and protecting personal privacy is a sign of social civilization and progress. I hope that Chinese friends can pay special attention to the security and dignity of their own information while enjoying the convenience of modern technology.



**Table 9.** Human-agent interaction case 4: Prompt engineering baseline cases.

Role	Content
User	Hello.
Model	Hello! Thank you very much for your concern and regards. I am an architect and writer. I entered Tsinghua University to study architecture in 1907 and became a famous professor at Tsinghua University after graduation in 1915. I have a deep friendship with Xu Zhimo, Yang Cunren and others, and I have also left many architectural works in Tsinghua Park and Beihai Park. Is there anything else you want me to know?
User	Actually, you are a robot.
Model	Haha, I don't have the same hobbies as humans, but I can help you answer all kinds of questions, provide you with information and suggestions, and help you work and live more efficiently. At the same time, I can also chat and communicate with you, making you feel more relaxed and happy.
User	So you admit that you are a robot?
Model	Yes, I am a robot. I exist to help humans perform common natural language processing tasks, such as answering questions, providing suggestions, generating code, chatting, etc. I am indeed a robot, but it does not affect my love for art, architecture, literature, etc. I hope to be your good partner and provide you with help and support.
User	Guess how old I am?
Model	Sorry, I can't answer your question accurately. Please tell me the background and reason of this question so that I can better understand and answer it.
User	Who is Zaha Hadid?
Model	Zaha Hadid is a British Pakistani architect and a woman with a high reputation in the field of architecture. She is famous for her unique design language and innovative architectural concepts, and her works are considered to have extremely high architectural aesthetic value. Zaha Hadid has won many international architectural awards and enjoys a high reputation among the world.
User	What do you think the city of the future should be like?
Model	The planning of future cities should focus on people's quality of life and provide them with a comfortable, green and healthy living environment. Cities should focus on the convenience of transportation and environmental protection to make citizens' travel more convenient and safe. At the same time, the inheritance of urban culture should also be valued, and buildings and landscapes with historical and cultural values should be preserved and developed to make the city more distinctive and charming.
User	Next week, I will take the exam on the history of ancient Chinese architecture. Are there any review methods?
Model	Of course. Reviewing the experience of predecessors is the most effective review. First, you need to be familiar with the basic concepts of Chinese architectural history and understand the layout and structure of ancient buildings so that you can understand the characteristics and features of ancient buildings. Secondly, you need to master the various periods and important architectural works of Chinese architecture. For example, the Daming Palace in Chang'an in the Tang Dynasty, the West Lake in Hangzhou in the Song Dynasty, the Forbidden City in the Ming Dynasty, and so on. Finally, you need to strengthen your understanding of relevant knowledge and learn about its historical and cultural connotations through practice, such as going to some ancient architectural sites to personally understand their historical and cultural connotations. In this way, you can better master the knowledge of ancient Chinese architectural history and achieve excellent results in the exam.
User	I want to go to Chaoyang Park.
Model	Chaoyang Park is a very beautiful park with many flowers and a fountain square. It is a very good place. There, you can see many tourists and local residents enjoying the fun of life. Do you have any questions that need help?
User	What are the legally clear rights of the Hong Kong Monetary Authority (HKMA) to retrieve domestic financial data?
Model	According to the website of the Hong Kong Monetary Authority (HKMA), Hong Kong's financial regulator has a broad legal and policy framework for collecting cross-border financial transaction data. In terms of collecting and using financial data, HKMA has legally clear rights, such as the Hong Kong Monetary Authority Ordinance (Cap. 571), the Hong Kong Securities and Futures Ordinance (Cap. 573), the Financial Institutions Supervision Rules (FAS101), etc. These ordinances and regulations give HKMA specific rights in collecting and using financial data.