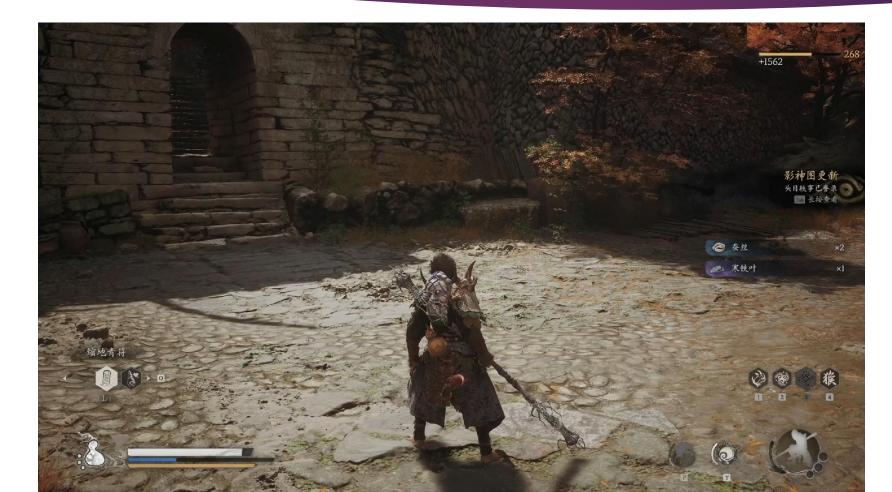


An Exploration into the Knowledge Network of *The Journey to the West-A* Digital Humanities Approach

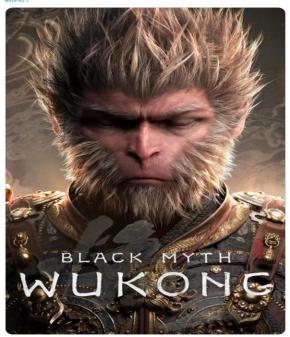
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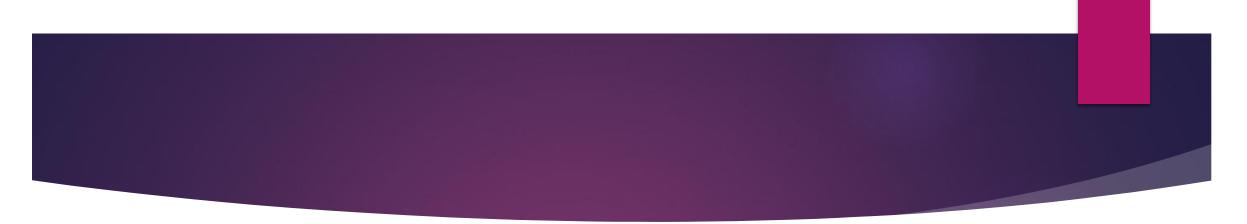
Content

- ▶ 1. An introduction to The Journey to the West
- 2. Anthony Christopher Yu and his translation of The Journey to the West
- ▶ 3. Previous studies on translations of The Journey to the West
- ► 4. Obtaining and handling of data
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1. An Introduction to The Journey to the West

- a late-Ming novel of prose fiction built upon meandering pilgrimage to India by the seventh-century monk Tripitaka
- ▶ 100 chapters and 4 unequal parts:
- Part 1: a self-contained introduction to the main story
- Part 2: introduces Tripitaka through his early biography and the background to his great journey



- Part 3: the longest section of the work, an episodic adventure story in which Tripitaka sets out to bring back Buddhist scriptures from India, but encounters various evils along the way
- Part 4: the return journey to the Tang Empire, and the aftermath in which each traveler receives a reward in the form of posts in the bureaucracy of the heavens



It is regarded as one of the greatest Classic Chinese novels, and has been described as one of the most popular literary works in East Asia.

2. Anthony Christopher Yu and his translation of The Journey to the West

Anthony Christopher Yu, born on Oct. 6, 1938, in Hong Kong, was an eminent scholar of both religious studies and literature. He was the Carl Darling Buck Distinguished Service Professor Emeritus in the Humanities and Professor Emeritus of Religion and Literature in the Chicago Divinity School as well as a member of the Committee on Social Thought at the University of Chicago.

Existing studies about Yu and his translation

► 3 Groups:

Group 1: made up of book reviews and essays aiming at giving a full assessment of his translation (see, e.g. Wang&Xu, 2016). This kind of remarks puts emphasis on discussion of translation quality, techniques and strategies as well as praises on the wide-ranging and detailed footnotes attached in the translation.



Group 2: includes essays written in retrospect and prospect of sinology development outside China including the achievements made by Yu. For instance, many sinologists' achievements would be listed with just a few words summarizing their thinking and logic. He (2011) points out that Yu's research of sinology is based on psychology, and the major research approach he adopts is cross-cultural analysis.



Group 3: centers on Yu's research on Chinese classics and religion. While considerable attention has been paid in the past to the translation of *The Journey to the West*, interest of Yu's study on Chinese classics has emerged only very slowly and in a more scattered way. These lone voices include Thomas DuBois and Blaine Gaustad. DuBois (2007) provides a framework to address the indivisibility of statecraft and religion, therefore "warrants the effort of multiple readings" and Gaustad (2007) gives high praise on Yu's State and Religion in China: Historical and Textual Perspectives.

3. Previous Studies on translations of The Journey to the West

- Arthur Waley's early 20th-century translation, while praised for its accessibility, has been critiqued for taking certain liberties in interpreting the original text.
- Yu's four-volume translation, completed in the late 20th century, is widely regarded as a comprehensive and faithful rendition, capturing the nuances of the narrative and the philosophical underpinnings of Confucianism, Taoism, and Buddhism. This translation, however, has faced scrutiny for its scholarly density, making it challenging for casual readers.



This study takes a digital humanities approach to delve into the intricate network of knowledge found within Yu's translation. By employing ConText for LDA topic modeling and LancsBox for further analysis, the study uncovers three main channels of knowledge in the notes of Yu's translation, namely, Taoism, Buddhism and Confucianism.

4. OBTAINING AND HANDLING OF DATA

- Firstly, 1,240 footnotes in Yu's translation of The Journey to the West were collected and saved in txt format to form a corpus.
- Then the corpus was cleaned with the documents segmented, manually proofread, and stop words removed.
- Topic modeling is performed using ConText developed by Jana Diesner and her team in University of Illinois.
- Finally, LancsBox is used for further analysis of selected themes and collocates.

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Quick Installation Guide

Running on Windows (64-bit)

- If you have installed older version of ConText before. Please use the Control Panel to uninstall the ConText program and delete the entire "ConText" folder from the previous installation directory (e.g. C:\Users\%YourUserName%\AppData\Local\) before installing the new ConText.
- · Download "ConText for Windows (64-bit)"
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 - Navigate to the Download section (https://context.ischool.illinois.edu/download.php#download), select the ConText for Windows version that compatible with your machine, and click "Submit".
- The above step will download a file ConText-2.0-x64.exe for 64-bit on your machine.
- Right click on the exe file and run the file as administrator. Select the destination location you'd like to
 install the ConText application (NOTE: if you didn't remove previous ConText, please make sure the
 destination is different from where the previous ConText has been installed). Click Next to proceed the
 installation process.
- · ConText should run automatically after the installation process is completed.
- To run ConText after the first installation: double click on the ConText.exe file in the installation folder.
- To uninstall ConText: double click **unins000.exe** in the installation folder and delete the entire installation folder if there are files not be removed by the uninstall process.

5. Findings

Topic modeling of the translation of the whole book
 Topic modeling can give a string of words that best represent a topic. Based on table 1, we can see clearly that the words "Chinese," "daoist," "buddhism," and "liji" suggest an interplay of cultural, religious, and literary themes of *The Journey to the West*.

Table 1. Topic modeling of footnotes in Yu'stranslation of *The Journey to the West*

Topic	Weight	Topic Members
1	7.8655	<u>chinese</u> - chapter - term - text - <u>daoist</u> - poem - line - literally - body - <u>buddhism</u> -
2	1.3866	appeared - grove - phenomena - works - smith - pool - allude - shaped - evil - issues -
3	1.3769	tiantai - xue - quatrain - chi - leading - rhetorical - stick - energetics - empire - powerful -
4	1.3696	stock - ways - purple - sticks - black - lotus - dame - guo - venerated - national -
5	1.3619	passage - scheme - provinces - flying - <u>liji</u> - designation - stages - commandments - boar - myth -
6	1.3617	power - flower - star - common - alternately - warring - flowing - ghosts - belief - rabbit -
7	1.3556	schafer - magic - death - qian - production - memorial - astronomical - rivers - cave - pan -



2) A collocate is a word that frequently appears near another specific word, and analyzing collocates can reveal patterns of language usage and associations between words. Figures 1-3 show the collocates of dao, Buddhism and Confucius respectively.

Figure 1. Collocates of dao

	Collocate	Rank	FreqLR	FreqL	FreqR	Range	Likelihood	Effect
1	way	1	5	3	2	1	26.976	5.271
2	entanglement	2	2	0	2	1	22.355	9.341
3	cong	3	2	2	0	1	19.366	8.341
4	bandits	3	2	2	0	1	19.366	8.341
5	livia	3	2	2	0	1	19.366	8.341
6	kohn	6	2	2	0	1	17.679	7.756
7	lao	6	2	0	2	1	17.679	7.756
8	shiji	8	2	1	1	1	13.230	6.171
9	chan	9	3	1	2	1	12.531	4.372
10	lord	10	2	0	2	1	12.431	5.882

Figure 2. Collocates of *buddism*

	Collocate	Rank	FreqLR	FreqL	FreqR	Range	Likelihood	Effect
1	chan	1	7	6	1	1	22.266	3.596
2	stanley	2	3	2	1	1	18.311	5.743
3	weinstein	2	3	2	1	1	18.311	5.743
4	china	4	7	1	6	1	18.084	3.124
5	daoism	5	5	1	4	1	15.948	3.605
6	powerless	6	2	1	1	1	15.162	6.743
7	mahayana	6	2	1	1	1	15.162	6.743

Notes:

Chan is associated with a school of Mahayana Buddhism known as Zen in Japan. It is the major branch of Buddhism practiced in East Asia.

Figure 3. Collocates of Confucius

	Collocate	Rank	FreqLR	FreqL	FreqR	Range	Likelihood	Effect
1	neo	1	6	6	0	1	53.525	7.782
2	traditions	2	3	3	0	1	24.934	7.367
3	analects	3	3	0	3	1	19.350	6.045
4	doctrine	4	3	0	3	1	16.932	5.460
5	transmitted	5	2	1	1	1	14.953	6.782
6	song	6	4	2	2	1	14.897	4.027
7	zeng	7	2	1	1	1	14.049	6.460

3) Further analysis of the 1,240 notes

- i. distribution of footnotes: all the footnotes were classified into four categories based on thick translation theory and Genette's theory of paratexts:
- (1) notes that trace the source (this kind of notes can include an account of the source and the source of information);
- (2) notes that explain the background information;
- (3) notes that integrate the relevant information which can also summarize extra-textual knowledge, other people's comments, related research, etc.;
- ▶ (4) notes that serve as commentary or criticism.

Thick translation

Kwame Anthony Appiah (1993, p. 817) defines thick translation as a translation that not only seeks to render a text from one language into another but also aims to provide a rich cultural and contextual understanding of the text for the reader. This approach goes beyond mere linguistic translation and includes defailed annotations, commentary, and explanations that help the reader grasp the cultural, historical, and social contexts of the original text. This concept of thick translation is influenced by the anthropological idea of thick description, which involves an in-depth explanation of cultural phenomena.

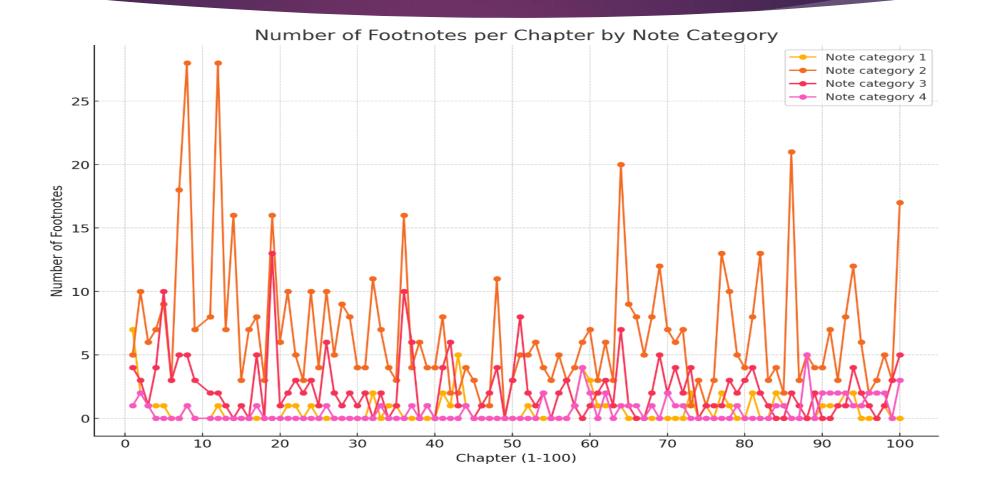
Genette's theory of paratexts

Genette's theory of paratexts is a significant contribution to literary theory, particularly in understanding how texts are framed and contextualized. Genette (1997, p. 5) divides paratexts into two main categories: 1) peritexts-elements that are physically attached to the main text within the same volume which usually are titles, prefaces, forewords, footnotes, chapter titles, epilogues, and cover designs and 2)epitexts-elements related to the text but are not physically attached to it. Epitexts usually include author interviews, letters, diaries, promotional material, reviews, and critical essays.

Table 2. Footnote categorization in Yu's translationof The Journey to the West

Category of Notes	Total number of footnotes	Percentage of each categorization of notes
1	142	11.45%
2	751	60.56%
3	25	20.57%
4	92	7.42%
Total	1,240	100%

Figure 4. Number of Footnotes per Chapter by Note Category



4) Topic modeling of 4 categories of notes Figure 5. Topic modeling of footnotes category No. 1 in Yu's translation of The Journey to the West

Торіс	Weight	TopicMembers
Topic1	8.9601	chinese - chapter - daoist - text - buddhism - xiyouji - alc
Topic2	1.7514	real - tianzun - wood - baopuzi - city - shidetang - world
Topic3	1.7368	officials - autumn - abbot - scholarship - good - underw
Topic4	1.7362	hour - days - argued - region - spirit - huandan - andrew
Topic5	1.722	discourse - assembly - preserved - imagined - stages - d
Topic6	1.7015	gold - pilgrimage - antiquity - disciple - attained - years
Topic7	1.7007	wisdom - symbolic - daxue - pearl - guardians - allegory

Figure 6. Topic modeling of footnotes category No. 2 in Yu's translation of The Journey to the West

Weight	TopicMembers
6.2965	chinese - chapter - daoist - term - poem - line - text - bu
0.7887	student - daxue - argued - tianshi - conversation - fair - k
0.787	place - illusion - triple - pool - worthy - emperors - saliva
0.7632	selection - temple - study - cyclical - universe - asked - lu
0.733	poetic - fish-basket - zhouyi - dark - relevant - zhejiang
0.7109	divine - law - submission - festival - realize - traditions
0.6957	fsz - emphasis - rhyme - reprint - theories - bamboo - pa
	6.2965 0.7887 0.787 0.7632 0.733 0.7109

Figure 7. Topic modeling of footnotes category No. 3 in Yu's translation of The Journey to the West

Торіс	Weight	TopicMembers
Topic1	10.5891	chapter - chinese - poem - body - term - palace - text - cl
Topic2	2.3289	man - transformation - pass - form - earliest - mersus - liji
Topic3	2.3273	vols - bamboo - han - novel's - zhao - indian - sui - peaco
Topic4	2.3025	found - king - level - phases - discussion - section - water
Topic5	2.2923	chu - p.m - structural - spirit - wrote - time - one's - trans
Topic6	2.2654	follow - imperial - story - rod - zhu - club - rule - apricot
Topic7	2.2607	lines - zhuangzi - premodern - front - texts - east - pian

Figure 8. Topic modeling of footnotes category No. 4 in Yu's translation of The Journey to the West

Weight	TopicMembers
10.7389	chapter - chinese - term - line - literally - moon - text - p
2.4902	zwx - earliest - leaves - teaching - dyadic - tonal - emper
2.4088	famous - correlated - cycle - a.m - received - smith - iii
2.3101	meaning - souls - chen - xyj - sun - quotation - taking - b
2.2509	nature - action - antiquity - fusion - images - narrated - s
2.2295	flower - episode - west - narration - textual - opening - q
2.2135	chapters - estrade - river - process - quoted - patriarch's
	10.7389 2.4902 2.4088 2.3101 2.2509 2.2295

5) Findings based on collocates Figure 9. Collocates of main subject terms for footnotes category no.2 generated by LancsBox

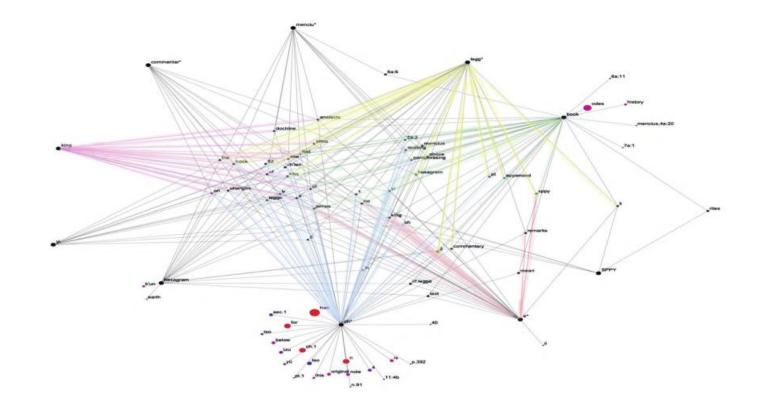
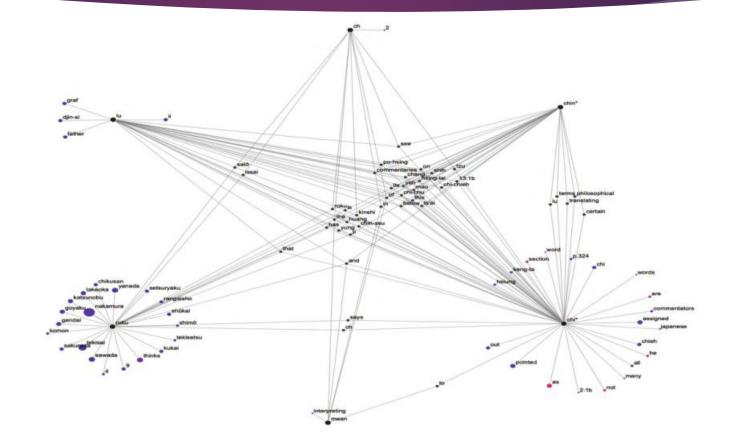


Figure 10. Collocates of main subject terms for footnotes category no.3 generated by LancsBox



Discoveries based on figure 9-10

Discovery1:Depiction of Buddhist Deities

Discovery 2: Taoist Concepts of Wu Wei (Non-Action) Discovery 3: Filial Piety and Ethical Conduct Discovery 4: Confucian Social Hierarchy

Summary

By providing detailed explanations, historical context, and philosophical insights, Anthony C. Yu's footnotes enrich readers' understanding of The Journey to the West. They highlight the complex entanglement of Buddhism, Taoism, and Confucianism, offering a comprehensive view of how these traditions coexist and influence the narrative.

Future Work

Interconnections between deities and different civilizations in the novel

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Thanks for your attention!

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