

CHAPTER 6

**Profiling Chinese Student Interpreters' Usage  
Intention of ChatGPT-assisted Translation by Q  
Methodology**

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**Abstract**

This study investigates the Chinese student interpreters' usage intention of ChatGPT-assisted translation with Q methodology. Guided by technology acceptance theory (TAM), the research aims to explore the usage intention profiles and consensus, as well as the differences between them. Q sort tasks were undertaken by 30 participants, and their commentary data was elicited to complement Q sort analysis. From the factor analysis, four factors were obtained, namely deeper-purpose seekers, big picture reflectors, deep understanders and coordinators. The distinguishing statements include the subject, technology, information and society elements. The article concludes with a discussion of the pedagogical implications of learning

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holistically capturing learners' usage intention situated in the specific context. Further research on intention may benefit from this line of research.

## References

- Ajzen, I. (1980). Understanding attitudes and predicting social behavior. *Englewood cliffs*.
- Braun, S (2013) Keep your distance? Remote interpreting in legal proceedings: A critical assessment of a growing practice. *Interpreting* 15 (2), 200-28.
- Brown, S. R. (1980). Political subjectivity. New Haven, CT: Yale University Press.
- Caldarini, G., Jaf, S., & McGarry, K. (2022). A literature survey of recent advances in chatbots. *Information*, 13(1), 41. <https://doi.org/10.3390/INFO13010041>
- Carey, J. M., & Kacmar, C. J. (2010). Cultural and language affects on technology acceptance and attitude: Chinese perspectives. *International Journal of Information Technology*, 16(1), 1-19.
- Carl, M. & Braun, S. (2018). Translation, interpreting and new technologies. In K. Malmkjaer (ed), *The Routledge Handbook of Translation Studies and Linguistics*. London: Routledge, 374-390.
- Chatterjee, J., & Dethlefs, N. (2023). This new conversational AI model can be your friend, philosopher, and guide, and even your worst enemy. *Patterns*, 4(1), 100676. doi: 10.1016/j.patter.2022.100676
- Chen, Y. & Qiu M. M. Application of TAM in distance education based on Internet. *The Chinese Journal of ICT in Education*. 2005 (2), 72-73.
- Christie, B. (1981). *Face to file communication: A psychological approach to information systems*. John Wiley & Sons, Inc..

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- Cotton, D. R., Cotton, P. A., & Shipway, J. R. (2023). Chatting and cheating: Ensuring academic integrity in the era of ChatGPT, *Innovations in Education and Teaching International*, DOI: 10.1080/14703297.2023.2190148
- Davis, F. D. (1986). *A technology acceptance model for empirically testing new end-user information systems: Theory and results* (Doctoral dissertation, Massachusetts Institute of Technology).
- Davis, F. D., Bagozzi, R. P., & Warshaw, P. R. (1989). User acceptance of computer technology: A comparison of two theoretical models. *Management science*, 35(8), 982-1003.
- Dehouche, N. (2021). Plagiarism in the age of massive Generative Pre-trained Transformers (GPT-3). *Ethics in Science and Environmental Politics*, 21, 17-23.  
<https://doi.org/10.3354/ese00195>
- Dwivedi, Y. K., Kshetri, N., Hughes, L., Slade, E. L., Jeyaraj, A., Kar, A. K., & Wright, R. (2023). "So what if ChatGPT wrote it?" Multidisciplinary perspectives on opportunities, challenges and implications of generative conversational AI for research, practice and policy. *International Journal of Information Management*, 71, 102642.  
<https://doi.org/10.1016/j.ijinfomgt.2023.102642>
- Farrokhnia, M., Banihashem, S. K., Noroozi, O., & Wals, A. (2023). A SWOT analysis of ChatGPT: Implications for educational practice and research. *Innovations in Education and Teaching International*, 1-15.
- Gao, Y., Wang, R., & Hou, F. (2023). How to Design Translation Prompts for ChatGPT: An Empirical Study. *arXiv e-prints*, arXiv:2304. <https://doi.org/10.48550/arXiv.2304.02182>
- Gil, José Ramón Biau, and Anthony Pym. "Technology and translation (a pedagogical overview)." *Translation*

- Technology and its Teaching*, Intercultural Studies Group, Universitat Rovira i Virgili, Tarragona (2006).
- Gile, Daniel (1995). *Basic Concepts and Models for Interpreter and Translator Training*. Amsterdam and Philadelphia: John Benjamins.
- Gordijn, B., Have, H.t. (2023). ChatGPT: evolution or revolution?. *Medicine, Health Care and Philosophy*. 26: 1-2. <https://doi.org/10.1007/s11019-023-10136-0>
- Hoffman, R. R. (1997). The cognitive psychology of expertise and the domain of interpreting. *Interpreting*, 2(1-2), 189-230.
- Ire, K. (2014). Q methodology for post-social-turn research in SLA. *Studies in Second Language Learning and Teaching*, 4(1), 13-32.
- Irie, K., & Ryan, S. (2015). Study abroad and the dynamics of change in learner L2 self-concept. *Motivational dynamics in language learning*, 343-366.
- Jiao, W., Wang, W., Huang, J. T., Wang, X., & Tu, Z. P. (2023). Is ChatGPT a good translator? Yes with GPT-4 as the engine. *arXiv preprint*, arXiv:2301.08745. <https://arxiv.org/abs/2301.08745>
- Kalina, S.; Ziegler, K. (2015). Technology, in: F. Pöchhacker (ed). *Routledge Encyclopedia of Interpreting Studies*. New York: Routledge, pp. 410-412.
- Ling, X.X., Wang D. M. & Yuan J. (2023). Reflection on Technology Ethics and Academic Ethics in the Context of ChatGPT Craze. *Journal of Xinjiang University (Philosophy and Social Sciences)*. 44(04), 123-136.
- Liu, Y., Han, T., Ma, S., Zhang, J., Yang, Y., Tian, J., & Ge, B. (2023). Summary of ChatGPT/ GPT-4 research and perspective towards the future of large language models. *arXiv preprint arXiv:2304.01852*. <https://doi.org/10.48550/arXiv.2304.01852>

## 174 Profiling Chinese Student Interpreters' Usage Intention

- Lo, C. K. (2023). What is the impact of ChatGPT on education? A rapid review of the literature. *Education Sciences*, 13(4), 410.
- Lundberg, A. (2019). Teachers' beliefs about multilingualism: Findings from Q method research. *Current Issues in Language Planning*, 20(3), 266-283.
- Lundberg, A., de Leeuw, R., & Aliani, R. (2020). Using Q methodology: Sorting out subjectivity in educational research. *Educational Research Review*, 31, 100361.
- MacIntyre, P. D., MacKay, E., Ross, J., Abel, E., Ortega, L., & Han, Z. (2017). The emerging need for methods appropriate to study dynamic systems. *Complexity theory and language development: In celebration of Diane Larsen-Freeman*, 97-122.
- Man D. L. & Mo J. (2023) An empirical study of MTI students' intention to use translation technology. *Foreign Language and Translation* (01), 86-91.  
doi:10.19502/j.cnki.2095-9648.2023.01.011.
- Mellinger, C. D. (2019). Computer-assisted interpreting technologies and interpreter cognition: A product and process-oriented perspective. *Tradumàtica*, (17), 0033-44.
- Millar, J. D., Mason, H., & Kidd, L. (2022). What is Q methodology?. *Evidence-Based Nursing*, 25(3), 77-78.
- Mu L. (2022). *Translation teaching research in China*. Shanghai Foreign Language Education Press.
- Ren, X. H. and Zhai, N. (2012). An empirical research of information technology acceptance behaviors of teachers in college classroom teaching. *Journal of Distance Education*, 2012, 30(02): 84-90.
- Rieber, L. P. (2020). Q methodology in learning, design, and technology: An introduction. *Educational Technology Research and Development*, 68(5), 2529-2549.

- Roziner, I. and Shlesinger, M. (2010) Much ado about something remote: Stress and performance in remote interpreting. *Interpreting* 12(2), 214-47.
- Sawyer, D. B. (2004). Fundamental aspects of interpreter education. *Fundamental Aspects of Interpreter Education*, 1-328.
- Schäler, R., Way, A., & Carl, M. (2003). EBMT in a Controlled Environment. Recent advances in example-based machine translation, 83-114.
- Swanson, E. B. (1974). Management information systems: appreciation and involvement. *Management science*, 21(2), 178-188.
- Tao, Y. L. (2023) Translation technology teaching in China (1990-2020): Past, Present and Prospect. *Shanghai Journal of Translation*, 169(2), 49.
- Tlili, A., Shehata, B., Adarkwah, M. A., Bozkurt, A., Hickey, D. T., Huang, R., & Agyemang, B. (2023). What if the devil is my guardian angel: ChatGPT as a case study of using chatbots in education. *Smart Learning Environments*, 10(1), 15.
- Venkatesh, V., Morris, M. G., Davis, G. B., & Davis, F. D. (2003). User acceptance of information technology: Toward a unified view. *MIS quarterly*, 425-478.
- Vieira, L. N. (2020). Automation anxiety and translators. *Translation Studies*, 13(1), 1-21.
- Wang H. S. & Liu S. J. (2023). Smart Translation Education: Concept, Pathways and Prospects. *Shanghai Journal of Translators*, (03):47-51+95.
- Watts, S. & Stenner, P. (2012). Doing Q methodological research: Theory, method & interpretation. *Doing Q Methodological Research*, 1-248.

## 176 Profiling Chinese Student Interpreters' Usage Intention

- Watts, S. (2015). Develop a Q methodological study. *Education for Primary Care, 26*(6), 435-437.
- Yang, Y., & Montgomery, D. (2013). Gaps or bridges in multicultural teacher education: A Q study of attitudes toward student diversity. *Teaching and Teacher Education, 30*, 27-37.
- Zhan C. (2010). Thirty years of interpreting teaching in China: development and current situation. *Journal of Guangdong University of Foreign Studies, 21*(6), 89-92.
- Zhang H., Liu C, Wang D. B. & Zhao Z. X. (2023) Research on the influencing factors of ChatGPT users' intention. *Information studies: Theory & Application, (04)*,15-22. doi:10.16353/j.cnki.1000-7490.2023.04.003.
- Zhao, B. & Feng, Q. H. (2019). On translation technology in the teaching guideline for undergraduate translation majors: connotations, development and footing. *Foreign Language World (5)*, 14-20.
- Zheng, Y. H., Zhang M. C., Wang X. N., Zhang B. J. Cheng L. L. & Rao G. Q. (2023). Multi-domain Changes and Challenges Caused by ChatGPT. *Journal of Tianjin Normal University (Social Sciences)*, (3): 49-63.
- Zheng, Y., Lu, X., & Ren, W. (2019). Profiling Chinese university students' motivation to learn multiple languages. *Journal of Multilingual and Multicultural Development, 40*(7), 590-604.
- Zheng, Y., Lu, X., & Ren, W. (2020). Tracking the evolution of Chinese learners' multilingual motivation through a longitudinal Q methodology. *The Modern Language Journal, 104*(4), 781-803.
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